Message Implementation Guideline

InventoryReport XML

Model: InventoryReport
Version: GS1 BMB 3.1
Variant: 3
Issue date: 03.04.2019
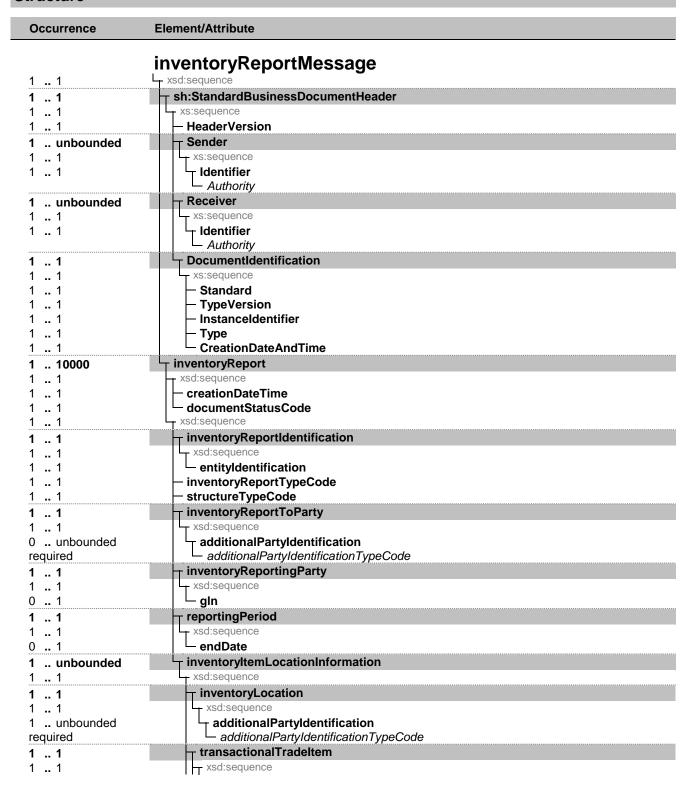Author: Vidar Thoresen

Change log InventoryReport

Date	Variant	Comments
14.04.2019	3	Merged GS1 3.1 for Axia and Nyce systems

Structure

Occurrence	Element/Attribute

inventoryReportMessage

Occurrence	Element/Attribute
1 .. 1	└ xsd:sequence
1 .. 1	**sh:StandardBusinessDocumentHeader**
1 .. 1	└ xs:sequence
1 .. 1	─ **HeaderVersion**
1 .. unbounded	**Sender**
1 .. 1	└ xs:sequence
1 .. 1	─ **Identifier**
	└ *Authority*
1 .. unbounded	**Receiver**
1 .. 1	└ xs:sequence
1 .. 1	─ **Identifier**
	└ *Authority*
1 .. 1	**DocumentIdentification**
1 .. 1	└ xs:sequence
1 .. 1	─ **Standard**
1 .. 1	─ **TypeVersion**
1 .. 1	─ **InstanceIdentifier**
1 .. 1	─ **Type**
1 .. 1	└ **CreationDateAndTime**
1 .. 10000	**inventoryReport**
1 .. 1	└ xsd:sequence
1 .. 1	─ **creationDateTime**
1 .. 1	─ **documentStatusCode**
1 .. 1	└ xsd:sequence
1 .. 1	**inventoryReportIdentification**
1 .. 1	└ xsd:sequence
1 .. 1	└ **entityIdentification**
1 .. 1	**inventoryReportTypeCode**
1 .. 1	**structureTypeCode**
1 .. 1	**inventoryReportToParty**
1 .. 1	└ xsd:sequence
0 .. unbounded	└ **additionalPartyIdentification**
required	└ *additionalPartyIdentificationTypeCode*
1 .. 1	**inventoryReportingParty**
1 .. 1	└ xsd:sequence
0 .. 1	└ **gln**
1 .. 1	**reportingPeriod**
1 .. 1	└ xsd:sequence
0 .. 1	└ **endDate**
1 .. unbounded	**inventoryItemLocationInformation**
1 .. 1	└ xsd:sequence
1 .. 1	**inventoryLocation**
1 .. 1	└ xsd:sequence
1 .. unbounded	└ **additionalPartyIdentification**
required	└ *additionalPartyIdentificationTypeCode*
1 .. 1	**transactionalTradeItem**
1 .. 1	└ xsd:sequence

Bold = Simple Element, Bold on grey background = Complex Element, Italic = Attribute, Grey = Group

Occurrence	Element/Attribute
1 **..** 1	**gtin**
0 **..** unbounded	**additionalTradeItemIdentification**
required	*additionalTradeItemIdentificationTypeCode*
1 **..** 1	xsd:sequence
0 **..** 1	**tradeItemQuantity**
	measurementUnitCode
0 **..** 1	**tradeItemDescription**
required	*languageCode*
0 .. unbounded	**transactionalItemData**
1 **..** 1	xsd:sequence
0 **..** 1	**batchNumber**
0 **..** 1	**bestBeforeDate**
0 **..** unbounded	**serialNumber**
0 .. unbounded	**inventoryStatusLineItem**
1 **..** 1	xsd:sequence
1 **..** 1	**lineItemNumber**
1 .. unbounded	**inventoryStatusQuantitySpecification**
1 **..** 1	xsd:sequence
1 **..** 1	**inventoryStatusType**
1 **..** 1	**quantityOfUnits**

Guideline

Element/Attribute	Annotation	
inventoryReportMessage	Type	inventory_report:InventoryReportMessageType
└ xsd:sequence	Occurence	1 .. 1
├ **sh:StandardBusinessDocumentHeader**	Occurence	1 .. 1
	Type	sh:StandardBusinessDocumentHeader
├ xs:sequence	Occurence	1 .. 1
├ **HeaderVersion**	Occurence	1 .. 1
	Type	xsd:string
	Example	**3.1**
├ **Sender**	Occurence	1 .. unbounded
	Type	sh:Partner
├ xs:sequence	Occurence	1 .. 1
├ **Identifier**	Occurence	1 .. 1
	Type	sh:PartnerIdentification
	Remark	**GLN for sender of the message**
	Example	**7080000950171**
└ *Authority*	Type	xsd:string
	Example	**14**
	Applicable Codes	
	14	EAN International
├ **Receiver**	Occurence	1 .. unbounded
	Type	sh:Partner
├ xs:sequence	Occurence	1 .. 1
├ **Identifier**	Occurence	1 .. 1
	Type	sh:PartnerIdentification
	Remark	**Client Id**
	Example	**12345**
└ *Authority*	Type	xsd:string
	Example	**ZZ**
	Applicable Codes	
	14	EAN International
	ZZ	Mutually defined
├ **DocumentIdentification**	Occurence	1 .. 1
	Type	sh:DocumentIdentification
├ xs:sequence	Occurence	1 .. 1
├ **Standard**	Occurence	1 .. 1
	Type	xsd:string
	Example	**GS1 BMS**
├ **TypeVersion**	Occurence	1 .. 1
	Type	xsd:string
	Example	**3.1**
├ **InstanceIdentifier**	Occurence	1 .. 1
	Type	xsd:string
	Example	**GS1**
├ **Type**	Occurence	1 .. 1
	Type	xsd:string
	Example	**InventoryReport**
└ **CreationDateAndTime**	Occurence	1 .. 1
	Type	xsd:dateTime
	Remark	**Creation date/time for the message**
	Remark	**2014-10-08T10:00:00**
├ **inventoryReport**	Occurence	1 .. 10000
	Type	inventory_report:InventoryReportType
├ xsd:sequence	Occurence	1 .. 1

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute	Annotation	
— **creationDateTime**	Occurence	1 **..** 1
	Type	xsd:dateTime
	Remark	**Creation date/tims for the document**
	Example	**2014-10-08T10:00:00**
— **documentStatusCode**	Occurence	1 **..** 1
	Type	shared_common:DocumentStatusEnumerationType
	Example	**ORIGINAL**
	Applicable Codes	
	ORIGINAL	
└ xsd:sequence	Occurence	1 **..** 1
— **inventoryReportIdentification**	Occurence	1 **..** 1
	Type	shared_common:EntityIdentificationType
└ xsd:sequence	Occurence	1 **..** 1
— **entityIdentification**	Occurence	1 **..** 1
	Type	restriction (xsd:string)
	Length	1 **..** 80
	Remark	**Document/message number**
	Example	**4567819**
— **inventoryReportTypeCode**	Occurence	1 **..** 1
	Type	inventory_report:InventoryReportTypeEnumerationType
	Example	**INVENTORY_STATUS**
	Applicable Codes	
	INVENTORY_STATUS	
— **structureTypeCode**	Occurence	1 **..** 1
	Type	ecom_common:StructureTypeCodeType
	Length	1 **..** 80
	Remark	**Required**
	Example	**1**
— **inventoryReportToParty**	Occurence	1 **..** 1
	Type	ecom_common:TransactionalPartyType
└ xsd:sequence	Occurence	1 **..** 1
— **additionalPartyIdentification**	Occurence	0 **..** unbounded
	Type	shared_common:AdditionalPartyIdentificationType
	Length	1 **..** 80
	Remark	**Client Id**
	Example	**12345**
└ *additionalPartyIdentificationTypeCode*	Type	restriction (xsd:string)
	Length	1 **..** 80
	Use	required
	Example	**88**
	Applicable Codes	
	88	Assigned by the owner of operation
— **inventoryReportingParty**	Occurence	1 **..** 1
	Type	ecom_common:TransactionalPartyType
└ xsd:sequence	Occurence	1 **..** 1
└ **gln**	Occurence	0 **..** 1
	Type	shared_common:GLNType
	Pattern	\d{13}
	Remark	**GLN for reporting Party**
	Example	**7080003388100**
— **reportingPeriod**	Occurence	1 **..** 1
	Type	shared_common:DateTimeRangeType
└ xsd:sequence	Occurence	1 **..** 1
└ **endDate**	Occurence	0 **..** 1
	Type	xsd:date
	Remark	**Activity report date**

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InventoryReport

Element/Attribute	Annotation	
	Example	**2014-10-08**
inventoryItemLocationInformation	Occurence	1 **..** unbounded
	Type	inventory_report:InventoryItemLocationInformationType
xsd:sequence	Occurence	1 **..** 1
inventoryLocation	Occurence	1 **..** 1
	Type	ecom_common:TransactionalPartyType
xsd:sequence	Occurence	1 **..** 1
additionalPartyIdentification	Occurence	1 **..** unbounded
	Type	shared_common:AdditionalPartyIdentificationType
	Length	1 **..** 80
	Remark	**Internal Warehouse code**
	Example	**BERGER**
	Applicable Codes	
	4033	Stavanger (Norway)
	5500	Haugesund (Norway)
	AES	Ålesund (Norway)
	BERGER	Berger/Skedsmokorset (Norway)
	BS02	Kongshavn (Norway)
	BS07	Trollåsen (Norway)
	BS17	Bergen (Norway)
	BS26	Trondheim (Norway)
	BS34	Tromsø (Norway)
	FI01	Finland
	JKPG01	Jönköping (Sweden)
	NCD	Lierstrand (Norway)
additionalPartyIdentificationTypeCode	Type	restriction (xsd:string)
	Length	1 **..** 80
	Use	required
	Example	**88**
	Applicable Codes	
	88	Assigned by the owner of operation
transactionalTradeItem	Occurence	1 **..** 1
	Type	ecom_common:TransactionalTradeItemType
xsd:sequence	Occurence	1 **..** 1
gtin	Occurence	1 **..** 1
	Type	shared_common:GTINType
	Pattern	\d{14}
	Remark	**GTIN - if used otherwise zeros will be sent**
	Example	**0000000000000**
additionalTradeItemIdentification	Occurence	0 **..** unbounded
	Type	shared_common:AdditionalTradeItemIdentificationType
	Length	1 **..** 80
	Remark	**Buyer's article number**
	Example	**554488**
additionalTradeItemIdentificationTypeCode	Type	restriction (xsd:string)
	Length	1 **..** 80
	Use	required
	Example	**IN**
	Applicable Codes	
	IN	Buyer's Item number
	SA	Supplier's article number
	ZGR	Grade
	ZST	Status
xsd:sequence	Occurence	1 **..** 1
tradeItemQuantity	Occurence	0 **..** 1
	Type	shared_common:QuantityType
	Remark	**Quantity in stock**

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Element/Attribute	Annotation	
	Example	**22**
measurementUnitCode	Type	restriction (xsd:string)
	Length	1 **..** 80
	Example	**PCE**
	Applicable Codes	
	PCE	pieces
tradeItemDescription	Occurence	0 **..** 1
	Type	shared_common:Description200Type
	Length	1 **..** 200
languageCode	Type	restriction (xsd:string)
	Length	1 **..** 80
	Use	required
	Applicable Codes	
	FI	FINLAND
	NO	NORWAY
	SE	SWEDEN
transactionalItemData	Occurence	0 **..** unbounded
	Type	ecom_common:TransactionalItemDataType
xsd:sequence	Occurence	1 **..** 1
batchNumber	Occurence	0 **..** 1
	Type	restriction (xsd:string)
	Length	1 **..** 80
	Remark	**Batch number**
	Example	**123907**
bestBeforeDate	Occurence	0 **..** 1
	Type	xsd:date
	Remark	**Best before date**
	Example	**20150101**
serialNumber	Occurence	0 **..** unbounded
	Type	restriction (xsd:string)
	Length	1 **..** 20
	Remark	**Serial number**
	Example	**2345678**
inventoryStatusLineItem	Occurence	0 **..** unbounded
	Type	inventory_report:InventoryStatusLineItemType
xsd:sequence	Occurence	1 **..** 1
lineItemNumber	Occurence	1 **..** 1
	Type	xsd:positiveInteger
	FractionDigits	0
	Inclusive	1 **..**
	Example	**1**
inventoryStatusQuantitySpecification	Occurence	1 **..** unbounded
	Type	ecom_common:InventoryStatusQuantitySpecificationType
xsd:sequence	Occurence	1 **..** 1
inventoryStatusType	Occurence	1 **..** 1
	Type	ecom_common:InventoryStatusCodeType
	Length	1 **..** 80
	Remark	**Status**
	Example	**AVAILABLE_FOR_SALE**
	Applicable Codes	
	AVAILABLE_FOR_SALE	
	BLOCKED	
	QUARANTINED	
quantityOfUnits	Occurence	1 **..** 1
	Type	shared_common:QuantityType
	Remark	**Quantity in stock**

Element/Attribute	Annotation
	Example **22**

```
<?xml version="1.0" encoding="Windows-1252"?>
<ns0:inventoryReportMessage xmlns:ns0="urn:gs1:ecom:inventory_report:xsd:3">
        <sh:StandardBusinessDocumentHeader
xmlns:sh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
                <sh:HeaderVersion>3.1</sh:HeaderVersion>
                <sh:Sender>
                        <sh:Identifier Authority="14">7080000950171</sh:Identifier>
                </sh:Sender>
                <sh:Receiver>
                        <sh:Identifier Authority="ZZ">999999</sh:Identifier>
                </sh:Receiver>
                <sh:DocumentIdentification>
                        <sh:Standard>GS1 BMS</sh:Standard>
                        <sh:TypeVersion>3.1</sh:TypeVersion>
                        <sh:InstanceIdentifier>GS1</sh:InstanceIdentifier>
                        <sh:Type>InventoryReport</sh:Type>
                        <sh:CreationDateAndTime>2019-04-10T10:49:07</sh:CreationDateAndTime>
                </sh:DocumentIdentification>
        </sh:StandardBusinessDocumentHeader>
        <inventoryReport>
                <creationDateTime>2019-04-10T05:30:00</creationDateTime>
                <documentStatusCode>ORIGINAL</documentStatusCode>
                <inventoryReportTypeCode>INVENTORY_STATUS</inventoryReportTypeCode>
                <structureTypeCode>ITEM_BY_LOCATION</structureTypeCode>
                <inventoryReportToParty>
                        <additionalPartyIdentification
additionalPartyIdentificationTypeCode="88">999999</additionalPartyIdentification>
                </inventoryReportToParty>
                <inventoryReportingParty>
                        <additionalPartyIdentification
additionalPartyIdentificationTypeCode="88">BERGER</additionalPartyIdentification>
                </inventoryReportingParty>
                <reportingPeriod>
                        <endDate>2019-04-10</endDate>
                </reportingPeriod>
                <inventoryItemLocationInformation>
                        <inventoryLocation>
                                <additionalPartyIdentification
additionalPartyIdentificationTypeCode="88">BERGER</additionalPartyIdentification>
                        </inventoryLocation>
                        <transactionalTradeItem>
                                <gtin>00000000000000</gtin>
                                <additionalTradeItemIdentification
additionalTradeItemIdentificationTypeCode="BUYER_ASSIGNED">111111111111</additionalTradeItemIdentific
ation>
                                <tradeItemQuantity measurementUnitCode="PCE">1</tradeItemQuantity>
                        </transactionalTradeItem>
                        <inventoryStatusLineItem>
                                <lineItemNumber>1</lineItemNumber>
                                <inventoryStatusQuantitySpecification>

        <inventoryStatusType>AVAILABLE_FOR_SALE</inventoryStatusType>
                                        <quantityOfUnits
measurementUnitCode="STK">1</quantityOfUnits>
                                </inventoryStatusQuantitySpecification>
```

Bold = Element, Italic = Attribute, Grey = Group

```
                                    </inventoryStatusLineItem>
                            </inventoryItemLocationInformation>
                            <inventoryItemLocationInformation>
                                    <inventoryLocation>
                                            <additionalPartyIdentification
additionalPartyIdentificationTypeCode="88">BERGER</additionalPartyIdentification>
                                    </inventoryLocation>
                                    <transactionalTradeItem>
                                            <gtin>00000000000000</gtin>
                                            <additionalTradeItemIdentification
additionalTradeItemIdentificationTypeCode="BUYER_ASSIGNED">222222222222</additionalTradeItemIdentific
ation>
                                            <tradeItemQuantity
measurementUnitCode="PCE">12</tradeItemQuantity>
                                    </transactionalTradeItem>
                                    <inventoryStatusLineItem>
                                            <lineItemNumber>2</lineItemNumber>
                                            <inventoryStatusQuantitySpecification>

        <inventoryStatusType>AVAILABLE_FOR_SALE</inventoryStatusType>
                                                    <quantityOfUnits
measurementUnitCode="STK">12</quantityOfUnits>
                                            </inventoryStatusQuantitySpecification>
                                    </inventoryStatusLineItem>
                            </inventoryItemLocationInformation>
                            <inventoryItemLocationInformation>
                                    <inventoryLocation>
                                            <additionalPartyIdentification
additionalPartyIdentificationTypeCode="88">BERGER</additionalPartyIdentification>
                                    </inventoryLocation>
                                    <transactionalTradeItem>
                                            <gtin>00000000000000</gtin>
                                            <additionalTradeItemIdentification
additionalTradeItemIdentificationTypeCode="BUYER_ASSIGNED">333333333333</additionalTradeItemIdentific
ation>
                                            <tradeItemQuantity measurementUnitCode="PCE">5</tradeItemQuantity>
                                    </transactionalTradeItem>
                                    <inventoryStatusLineItem>
                                            <lineItemNumber>3</lineItemNumber>
                                            <inventoryStatusQuantitySpecification>

        <inventoryStatusType>AVAILABLE_FOR_SALE</inventoryStatusType>
                                                    <quantityOfUnits
measurementUnitCode="STK">5</quantityOfUnits>
                                            </inventoryStatusQuantitySpecification>
                                    </inventoryStatusLineItem>
                            </inventoryItemLocationInformation>
                            <inventoryItemLocationInformation>
                                    <inventoryLocation>
                                            <additionalPartyIdentification
additionalPartyIdentificationTypeCode="88">BERGER</additionalPartyIdentification>
                                    </inventoryLocation>
                                    <transactionalTradeItem>
                                            <gtin>00000000000000</gtin>
```

```
                                    <additionalTradeItemIdentification
additionalTradeItemIdentificationTypeCode="BUYER_ASSIGNED">444444444444</additionalTradeItemIdentific
ation>
                                    <tradeItemQuantity
measurementUnitCode="PCE">14</tradeItemQuantity>
                            </transactionalTradeItem>
                            <inventoryStatusLineItem>
                                    <lineItemNumber>4</lineItemNumber>
                                    <inventoryStatusQuantitySpecification>

        <inventoryStatusType>AVAILABLE_FOR_SALE</inventoryStatusType>
                                            <quantityOfUnits
measurementUnitCode="STK">14</quantityOfUnits>
                                    </inventoryStatusQuantitySpecification>
                            </inventoryStatusLineItem>
                    </inventoryItemLocationInformation>
                    <inventoryItemLocationInformation>
                            <inventoryLocation>
                                    <additionalPartyIdentification
additionalPartyIdentificationTypeCode="88">BERGER</additionalPartyIdentification>
                            </inventoryLocation>
                            <transactionalTradeItem>
                                    <gtin>00000000000000</gtin>
                                    <additionalTradeItemIdentification
additionalTradeItemIdentificationTypeCode="BUYER_ASSIGNED">555555555555</additionalTradeItemIdentific
ation>
                                    <tradeItemQuantity measurementUnitCode="PCE">6</tradeItemQuantity>
                            </transactionalTradeItem>
                            <inventoryStatusLineItem>
                                    <lineItemNumber>5</lineItemNumber>
                                    <inventoryStatusQuantitySpecification>

        <inventoryStatusType>AVAILABLE_FOR_SALE</inventoryStatusType>
                                            <quantityOfUnits
measurementUnitCode="STK">6</quantityOfUnits>
                                    </inventoryStatusQuantitySpecification>
                            </inventoryStatusLineItem>
                    </inventoryItemLocationInformation>
            </inventoryReport>
</ns0:inventoryReportMessage>
```