Despatch Advice Line Item Extension Cash Handling - Business Message Standard (BMS)

Optional Description

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Document Summary

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01-Apr-2016	GS1 France	16-000251
01-Apr-2016	GS1 France	16-000252
22-Jun-2018	GS1 France	18-000136
03-Oct-2018	GS1 GO	18-000319

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change
01-Mar-2017	BMS 3.3 – Issue 1	Ewa Iwicka	BMS Release 3.3	Original document creation
15-Oct-2018	BMS 3.4 – Issue 1	Ewa Iwicka	BMS Release 3.4	See summary of changes
04-Feb-2021	BMS 3.5 – Issue 1	Miklos Bolyky	BMS Release 3.5	See summary of changes
05-Jan-2022	BMS 3.5.1 – Issue 1	Miklos Bolyky	BMS Release 3.5.1	See summary of changes
01-Mar-2023	BMS 3.6 – Issue 1	Miklos Bolyky	BMS Release 3.6	See summary of changes

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Table of Contents

1 Business Domain View

1.1 Introduction

Message Definition / Business need

Cash Handling Extension is an extension to the Despatch Advice Document used to enable exchange of information necessary for handing of bank-notes that may be stained, torn or presumed false.

Principles

Typically, the Despatch Advice serves as a pre-announcement of the goods being shipped. In the context of handling of suspected bank-notes, additional data must be provided. The data are exchanged via an extension to the Despatch Advice on line item level.

2 Business Context

Context Category	Value(s)
Industry	Finance
Geopolitical	All
Product	Cash banknotes
Process	Deliver
System Capabilities	GS1 System
Official Constraints	None

3 Business Transaction View

3.1 Business Transaction View

Use case diagram
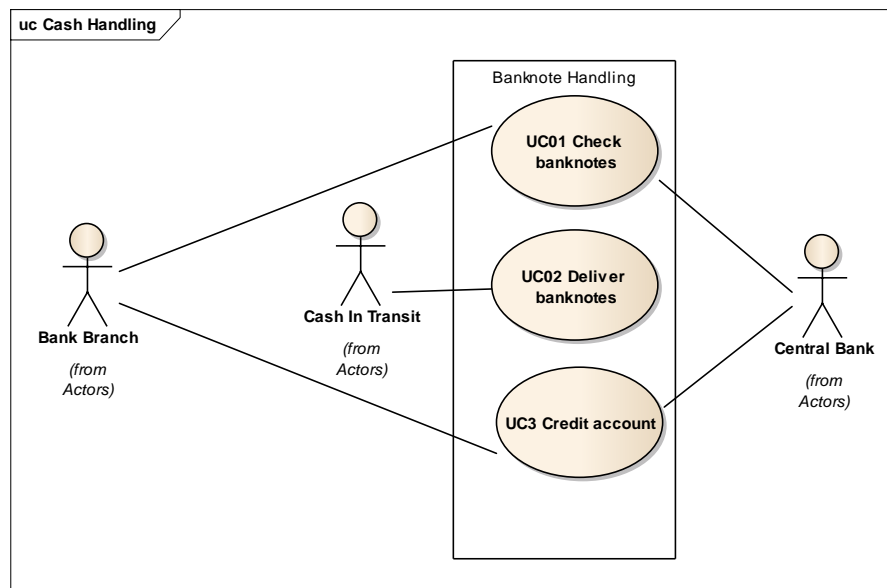
Use case description

Use Case Name	UC1
Use Case Description	Check banknote condition, exchange of condition data
Actors (Goal)	Bank branch (ATMs, sorting machines, bundling machines, recycling machines, counting machines) Cash in Transit (party responsible for physical transfer of banknotes) Central bank
Performance Goals	None
Preconditions	A trading agreement (including alignment of master data, payment and delivery terms) has been established between Bank Branch Cash in Transit company and Central Bank. The conditions of crediting or refusal of crediting the customer account have been established.
Post conditions	Central Bank has been supplied with data related to the condition of banknotes which are about to be delivered. Central Bank has sufficient data to inform Bank Branch whether the customer account will be credited.
Main Scenario	Begins when the Bank Branch checks banknotes in the cash terminal, detects notes that are stained, torn or presumed false. Continues with: <table><tr><td>Step #</td><td>Actor</td><td>Activity Step</td></tr><tr><td></td><td>Buyer</td><td>CIT collects the unconventional banknotes from Bank Branch.</td></tr><tr><td></td><td>Seller</td><td>Bank Branch sends banknote condition data to Central Bank.</td></tr><tr><td></td><td></td><td></td></tr></table> Ends when the Central Bank checks the received banknotes and compares their condition with received data, which allows them to decide whether or not the customer account will be credited.
Alternative Scenario(s)	Not Applicable
Related Rules	None

Use Case Name	UC1
Use Case Description	Provide metering unit identification, location and measurement data enabling payment for measured goods
Actors (Goal)	Seller (payee) Buyer (payer)
Performance Goals	None
Preconditions	None
Post conditions	None

|	
Main Scenario	**Begins when** the seller generates an invoice based on the quantity of measured goods deliveries. Continues with: <table><tr><td>Step #</td><td>Actor</td><td>Activity Step</td></tr><tr><td></td><td>Seller</td><td>Issues and sends the invoice to the buyer.</td></tr></table>**Ends when** The buyer receives the invoice.
Alternative Scenario(s)	Not Applicable
Related Rules	None

Activity diagram

Not Applicable

Communication diagram

Not Applicable

4 Business Information View

4.1 Cash Despatch Advice Line Item Extension
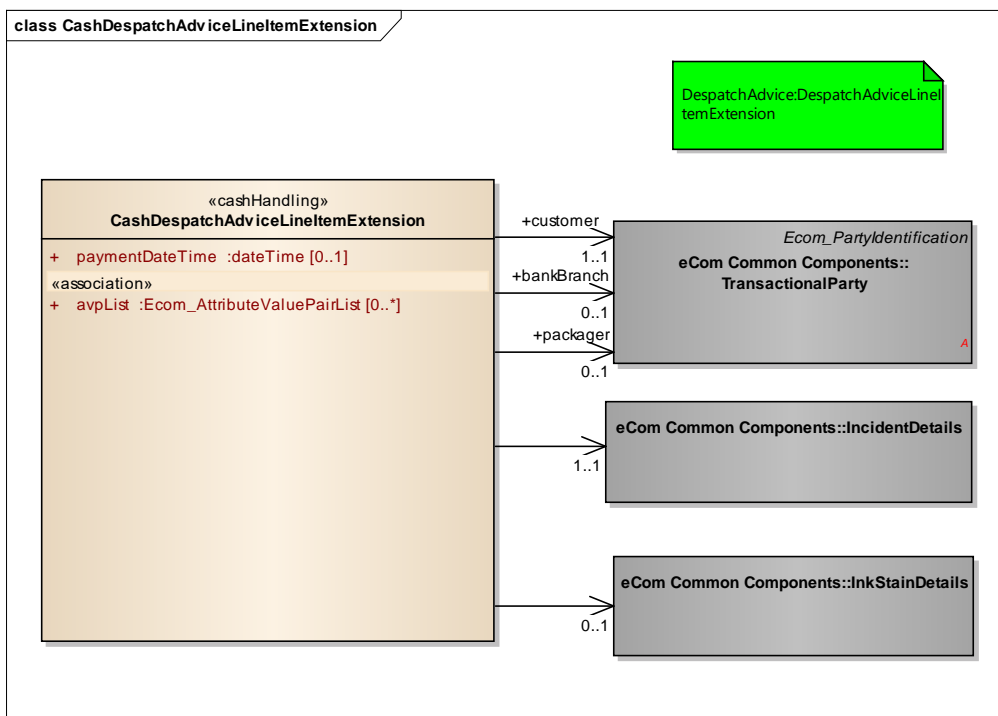
GDD Report

The content of the CashDespatchAdviceLineItemExtension class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:CashDespatchAdviceLineItemExtension

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
CashDespatchAdviceLineItemExtension				An extension to the Despatch Advice Document used to enable handling of cash.	WR 16-000246 WR 16-000247 WR 16-000248 WR 16-000249 WR 16-000250
Attribute	paymentDateTime	DateTime	0..1	The date on which the central bank has controlled the presumed false bank note that have been finally controlled as not false.	WR 16-000250
Association		IncidentDetails	1..1	The details of the cash related incident detection.	WR 16-000251
Association	customer	TransactionalParty	1..1	Indicates a physical person or a legal entity that is the account holder. If used for cash handling process, the account of the customer will not be credited if the suspect bank note is detected at the bank branch.	WR 16-000247
Association	bankBranch	TransactionalParty	0..1	Identifies bank branch that manages the cash terminal.	WR 16-000249
Association		InkStainDetails	0..1	Specifies detailed circumstances of ink-staining the suspicious bank notes.	WR 16-000252
Attribute	cashTerminalIdentification	string	0..1	Identification of the cash terminal at which the operation has been done by the customer.	WR 16-000248
Attribute	cashTerminalType	string	0..1	The type of the cash terminal at which the operation has been done by the customer.	WR 16-000248
Attribute	pickUpDateTime	dateTime	0..1	Date/time at which the cash is picked up from the bank branch.	WR 16-000246

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	avpList	Ecom_AttributeValuePairList	0..*	The placeholder for non-standard data.	

5   Business Message Examples

5.1   Example

TBD

Attribute	Value
DespatchAdvice	
Document	
creationDateTime	2016-08-20 10:00
documentStatus	ORIGINAL
EntityIdentification (+despatchAdviceIdentification)	
entityIdentification	DA349899
PartyIdentification (+contentOwner)	
gln	4098765000010
TransactionalParty (+shipper)	
gln	4098765000010
TransactionalParty (+receiver)	
gln	5412345000013
TransactionalParty (+shipTo)	
gln	5412345000037
DespatchInformation	
actualShipDateTime	2016-08-20 11:00
DespatchAdviceLogisticUnit	
DespatchAdviceLineItem	
lineItemNumber	1
despatchedQuantity	1
CashDespatchAdviceLineItemExtension	
TransactionalParty (+customer)	
address	
city	London
name	John Dowe
postalCode	1234
streetAddressOne	Rose Street 1
financialInstitutionInformation	
financialInstitutionName	Bank of Eden
financialAccount	
financialAccountNumber	3387354-36
Gs1Code(+financialAccountNumberTypeCode)	CHECKING_ACCOUNT
TransactionalParty (+bankBranch)	
gln	4098765000010
TransactionalParty (+packager)	

Attribute	Value
gln	4077765000015
IncidentDetails	
incidentDateTime	2016-08-20 09:00
depositDateTime	2016-08-20 09:30
incidentDetectedDuringBankNoteRecycling	0
IncidentLocation	
TransactionalParty (+incidentLocation)	
gln	4066665000010
InkStainDetails	
theftDeterrenceSystemID	ABC3487365
theftDeterrenceSystemIName	Bank safe
theftDeterrenceSystemType	123
IncidentCircumstances	
complaintID	COM6789
circumstanceDescription	Armed burglary

6   Implementation Considerations

6.1   User Guide

The Functional User Guide Order contains more information about the structure and content of the Despatch Advice Line Item Cash Extension: *http://www.gs1.org/docs/ecom/xml/3/3.4/eCom-Trade_messages.html#CashDespatchAdviceLineItemCashExtension*

6.2   Message Specific Considerations

Not applicable

7 Summary of Changes

Any change in the GS1 standards is done based on the Work Request (WR) submitted by the GS1 User Companies or Member Organisations. All Work Requests are documented in the Work Request system available on the GS1 website: *http://wr.gs1.org*. The system is accessible to registered users. New visitors need to register first, to be able to access it. WRs can be searched by the number referenced in tables below, see: Search Work Requests. The number starts with the two last digits of the year when it was submitted, followed by the consecutive number within that year.

✅ **Note:** WRs submitted earlier than February 2012 should be searched in Old Change Requests.

7.1 BMS Release 3.3

Change	Associated WR
Initial Document Creation	WR 16-000246 WR 16-000247 WR 16-000248 WR 16-000249 WR 16-000251 WR 16-000252

7.2 BMS Release 3.4

Change	Associated WR
Added incidentTypeCode to IncidentCircumstances and created IncidentTypeCode list class IncidentCircumstances - maintenance view **IncidentCircumstances** + complaintID :string [0..1] = {1..200} + circumstanceDescription :Description5000 [0..*] + incidentTypeCode :IncidentTypeCode [0..1] «association» + avpList :Ecom_AttributeValuePairList [0..*] *maintenance* Change: (Complete) 3.3 new class (WR 16-252) Change: (New) 3.4 added + incidentTypeCode (WR 18-136) Changed multiplicity of incidentDateTime, depositDateTime, incidentDetectedDuringBankNoteRecycling and incidentLocation from 1..1 to 0..1 class IncidentDetails - maintenance view **IncidentDetails** + incidentDateTime :dateTime [0..1] + depositDateTime :dateTime [0..1] + incidentDetectedDuringBankNoteRecycling :boolean [0..1] + incidentDetected :String500 [0..1] «association» + avpList :Ecom_AttributeValuePairList [0..*] *maintenance* Change: (Complete) 3.3 new class (WR 16-251) Change: (New) 3.4 changed multiplicity of +incidentDateTime, +depositDateTime, +incidentDetectedDuringBankNoteRecycling and incidentLocation association from 1..1 to 0..1 (WR 18-136) +incidentLocation 0..1 Ecom_PartyIdentification **TransactionalParty** *maintenance* Change: (Complete) 3.3 added association to avpList (WR 16-340) Change: (Complete) 3.3 Added generalisation to eComPartyIdentification	WR 18-000136 Add element distinguishing the types of incident (accident or assault) element Make incidentDateTime, depositDateTime, incidentDetectedDuringBankNoteRecycling and incidentLocation optional

7.3 BMS Release 3.5

No work requests. Document upgraded for release consistency.

7.4 BMS Release 3.5.1

No work requests. Document upgraded for release consistency.

7.5 BMS Release 3.6

No work requests. Document upgraded for release consistency.

8 Appendices

Not Applicable

9 Acknowledgements

The following is a list of individuals (and their companies) who participated in the creation, review and approval of this BMS.

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9.1.2 Development Team Members

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