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

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## Document Summary

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## 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 – Draft for community review	Ewa Iwicka	BMS Release 3.4	See summary of changes
10-Apr-2019	BMS 3.4 – Issue 1	Jean-Luc Champion	BMS Release 3.4	See summary of changes

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# Table of Contents

<b>1</b>	<b>Business Domain View .....</b>	<b>5</b>
1.1	Introduction .....	5
<b>2</b>	<b>Business Context .....</b>	<b>5</b>
<b>3</b>	<b>Business Transaction View .....</b>	<b>5</b>
3.1	Business Transaction View.....	5
<b>4</b>	<b>Business Information View .....</b>	<b>8</b>
4.1	Cash Despatch Advice Line Item Extension.....	8
<b>5</b>	<b>Business Message Examples .....</b>	<b>11</b>
5.1	Example.....	11
<b>6</b>	<b>Implementation Considerations.....</b>	<b>12</b>
6.1	User Guide .....	12
6.2	Message Specific Considerations .....	12
<b>7</b>	<b>Summary of Changes .....</b>	<b>13</b>
7.1	BMS Release 3.3 .....	13
7.2	BMS Release 3.4 .....	13
<b>8</b>	<b>Appendices .....</b>	<b>13</b>
<b>9</b>	<b>Acknowledgements.....</b>	<b>14</b>
9.1.1	Work Group .....	14
9.1.2	Development Team Members .....	15

## 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.

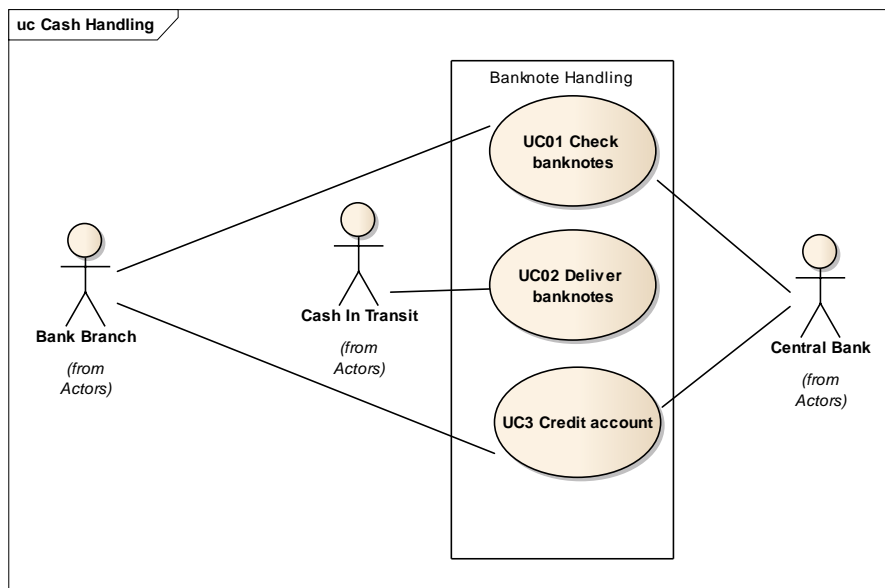
## 2 Business Context

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><th>Step #</th><th>Actor</th><th>Activity Step</th></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.	Step #	Actor	Activity Step		Buyer	CIT collects the unconventional banknotes from Bank Branch.		Seller	Bank Branch sends banknote condition data to Central Bank.			
Step #	Actor	Activity Step											
	Buyer	CIT collects the unconventional banknotes from Bank Branch.											
	Seller	Bank Branch sends banknote condition data to Central Bank.											
Alternative Scenario(s)	Not Applicable												
Related Rules	None												

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

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

### Activity diagram

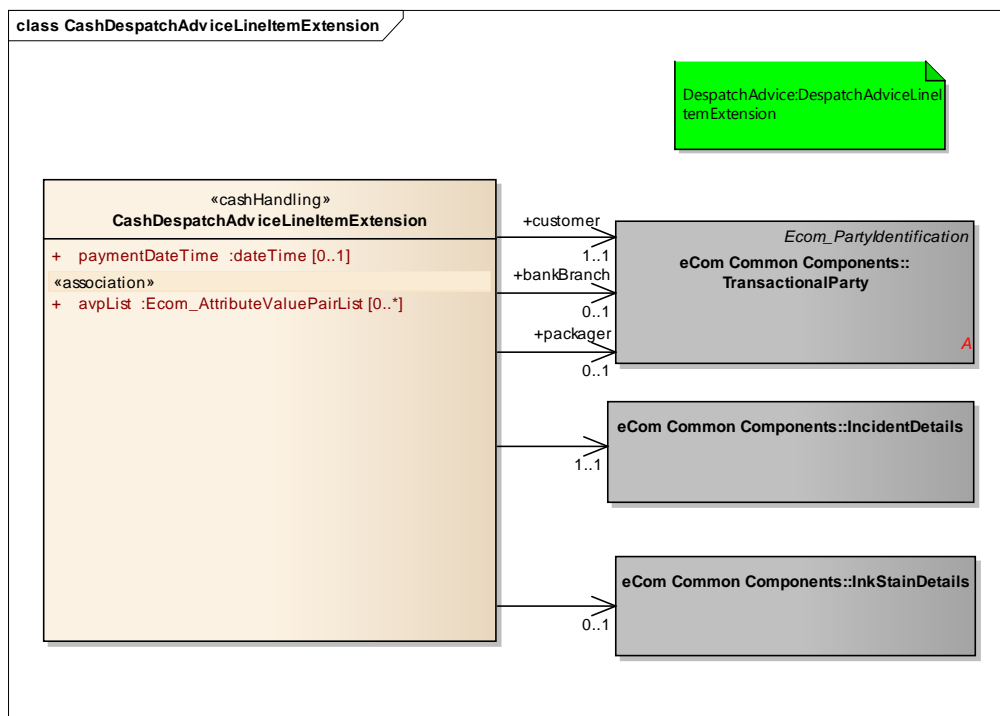
Not Applicable

### 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](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



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

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
<b>DespatchAdvice</b>	
<i>Document</i>	
creationDateTime	2016-08-20 10:00
documentStatus	ORIGINAL
<i>EntityIdentification (+despatchAdviceIdentification)</i>	
entityIdentification	DA349899
<i>PartyIdentification (+contentOwner)</i>	
gln	4098765000010
<i>TransactionalParty (+shipper)</i>	
gln	4098765000010
<i>TransactionalParty (+receiver)</i>	
gln	5412345000013
<i>TransactionalParty (+shipTo)</i>	
gln	5412345000037
<i>DespatchInformation</i>	
actualShipDateTime	2016-08-20 11:00
<b>DespatchAdviceLogisticUnit</b>	
<b>DespatchAdviceLineItem</b>	
lineItemNumber	1
despatchedQuantity	1
<b>CashDespatchAdviceLineItemExtension</b>	
<i>TransactionalParty (+customer)</i>	
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
<i>TransactionalParty (+bankBranch)</i>	
gln	4098765000010
<i>TransactionalParty (+packager)</i>	

Attribute	Value
gln	4077765000015
<b>IncidentDetails</b>	
incidentDateTime	2016-08-20 09:00
depositDateTime	2016-08-20 09:30
incidentDetectedDuringBankNoteRecycling	0
<b>IncidentLocation</b>	
<i>TransactionalParty (+incidentLocation)</i>	
gln	4066665000010
<b>InkStainDetails</b>	
theftDeterrenceSystemID	ABC3487365
theftDeterrenceSystemName	Bank safe
theftDeterrenceSystemType	123
<b>IncidentCircumstances</b>	
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](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.

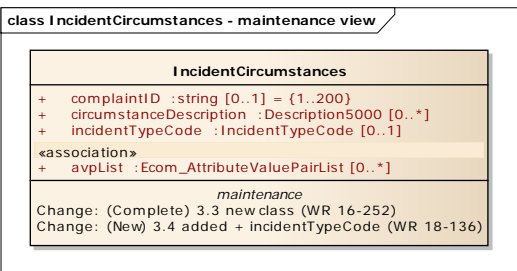
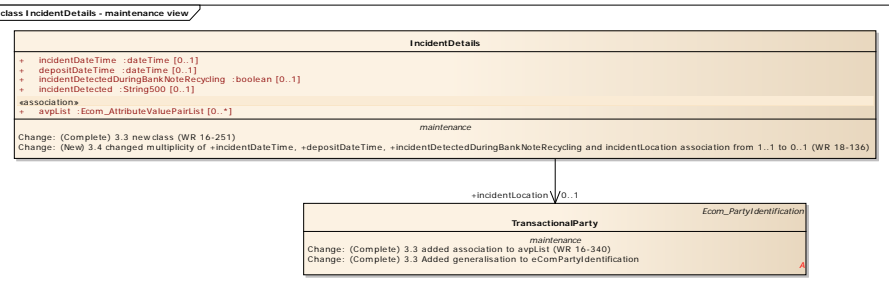


**Note:** WRs submitted earlier than February 2012 should be searched in Old Change Requests.

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

## 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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Technical Development Lead	Ewa Iwicka	GS1 Global Office
Peer Review		GS1 Global Office
Technical Communications Review	Not Applicable	