



The Global Language of Business

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

Optional Description

Release 3.5.1, Draft, Jan 2022



Document Summary

Document Item	Current Value
Document Name	Despatch Advice Line Item Extension Cash Handling Business Message Standard (BMS)
Document Date	Jan 2022
Document Version	3.5.1
Document Issue	1
Document Status	Draft

Work Request Reference

Date of WR Submission to GSMP:	WR Submitter(s):	Refer to Work Request (WR) Number(s):
01-Apr-2016	GS1 France	16-000246
01-Apr-2016	GS1 France	16-000247
01-Apr-2016	GS1 France	16-000248
01-Apr-2016	GS1 France	16-000249
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

Disclaimer

GS1®, under its IP Policy, seeks to avoid uncertainty regarding intellectual property claims by requiring the participants in the Work Group that developed this **Despatch Advice Line Item Extension Cash Handling Business Message Standard (BMS)** to agree to grant to GS1 members a royalty-free licence or a RAND licence to Necessary Claims, as that term is defined in the GS1 IP Policy. Furthermore, attention is drawn to the possibility that an implementation of one or more features of this Specification may be the subject of a patent or other intellectual property right that does not involve a Necessary Claim. Any such patent or other intellectual property right is not subject to the licencing obligations of GS1. Moreover, the agreement to grant licences provided under the GS1 IP Policy does not include IP rights and any claims of third parties who were not participants in the Work Group.

Accordingly, GS1 recommends that any organization developing an implementation designed to be in conformance with this Specification should determine whether there are any patents that may encompass a specific implementation that the



organisation is developing in compliance with the Specification and whether a licence under a patent or other intellectual property right is needed. Such a determination of a need for licencing should be made in view of the details of the specific system designed by the organisation in consultation with their own patent counsel.

THIS DOCUMENT IS PROVIDED "AS IS" WITH NO WARRANTIES WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY, NONINFRINGEMENT, FITNESS FOR PARTICULAR PURPOSE, OR ANY WARRANTY OTHERWISE ARISING OUT OF THIS SPECIFICATION. GS1 disclaims all liability for any damages arising from use or misuse of this Standard, whether special, indirect, consequential, or compensatory damages, and including liability for infringement of any intellectual property rights, relating to use of information in or reliance upon this document.

GS1 retains the right to make changes to this document at any time, without notice. GS1 makes no warranty for the use of this document and assumes no responsibility for any errors which may appear in the document, nor does it make a commitment to update the information contained herein.

GS1 and the GS1 logo are registered trademarks of GS1 AISBL.

Table of Contents

1	Business Domain View	5
1.1	Introduction	5
2	Business Context	5
3	Business Transaction View	5
3.1	Business Transaction View.....	5
4	Business Information View	8
4.1	Cash Despatch Advice Line Item Extension.....	8
5	Business Message Examples	11
5.1	Example.....	11
6	Implementation Considerations.....	12
6.1	User Guide	12
6.2	Message Specific Considerations	12
7	Summary of Changes	13
7.1	BMS Release 3.3	13
7.2	BMS Release 3.4	13
7.3	BMS Release 3.5	13
7.4	BMS Release 3.5.1	14
8	Appendices	14
9	Acknowledgements.....	14
9.1.1	Work Group	14
9.1.2	Development Team Members	16

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.

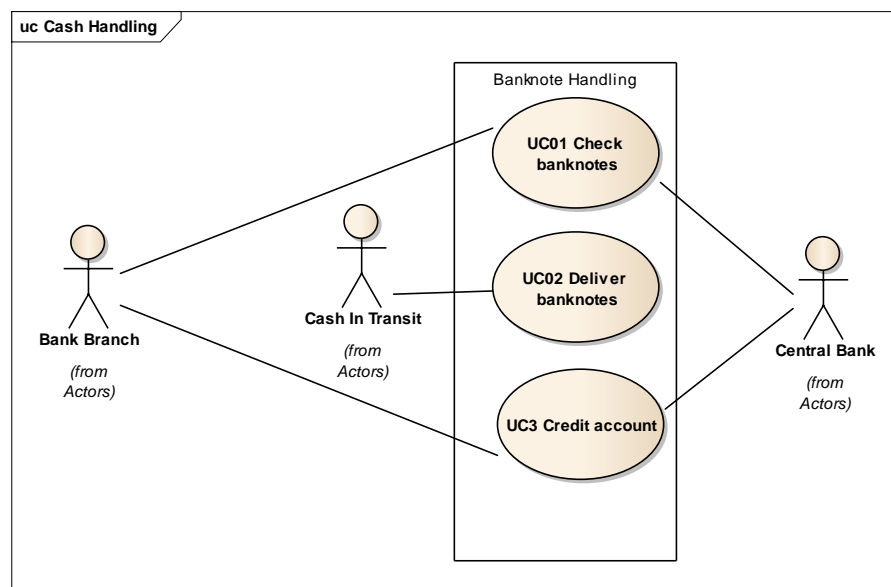
2 Business Context

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.	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												

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:		
	Step #	Actor	Activity Step
		Seller	Issues and sends the invoice to the buyer.
	Ends when The buyer receives the invoice.		
Alternative Scenario(s)	Not Applicable		
Related Rules	None		

Activity diagram

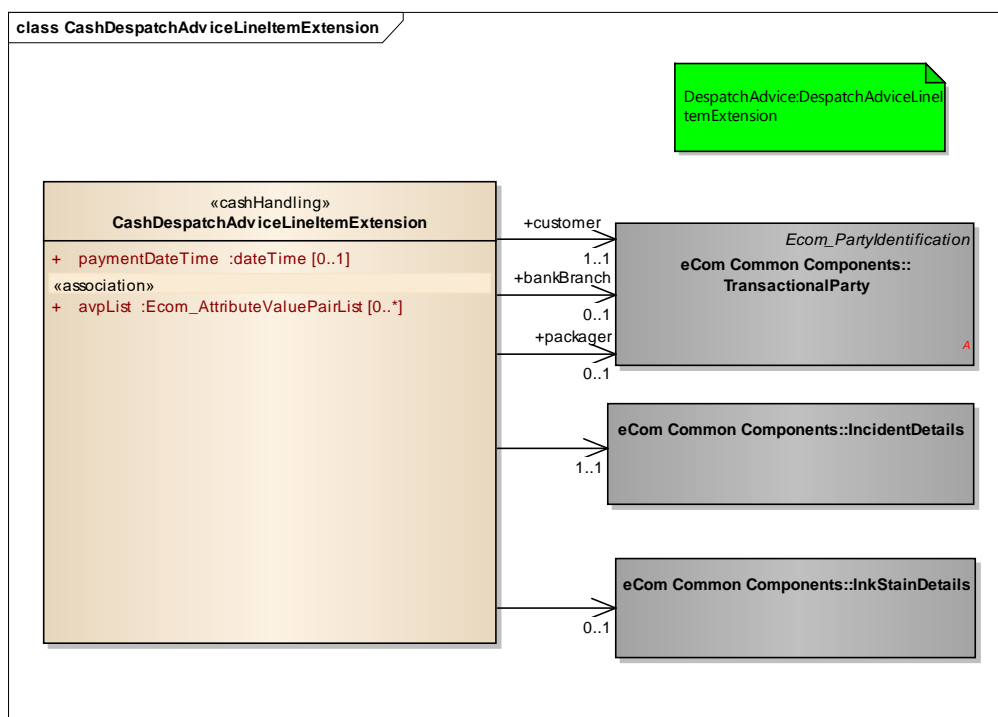
Not Applicable

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
<p>Added incidentTypeCode to IncidentCircumstances and created IncidentTypeCode list</p> <pre> 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) </pre> <p>Changed multiplicity of incidentDateTime, depositDateTime, incidentDetectedDuringBankNoteRecycling and incidentLocation from 1..1 to 0..1</p> <pre> 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) </pre> <pre> +incidentLocation 0..1 TransactionalParty Ecom_PartyIdentification Change: (Complete) 3.3 added association to avpList (WR 16-340) Change: (Complete) 3.3 Added generalisation to eComPartyIdentification </pre>	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.

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.

9.1.1 Work Group

Function	Name	Company / organisation
Co-chair	Rossner (Pottier), Natascha	GS1 France
Co-chair	Schmidt, Tom Eric	August Storck KG
Member	Bemrose, Jonathan	R&R Ice Cream
Member	Bodemer, Petra	dm-drogerie markt GmbH + Co. KG
Member	Boikanyo, Rebhone	GS1 South Africa / Consumer Goods Council of South Africa
Member	Canada, ON	M3B 3L1
Member	Carlson, Jim	General Mills, Inc.
Member	Chresta, Richard	GS1 Switzerland
Member	Cook, Don	Wal-Mart Stores, Inc.
Member	Cox, Marc	Philips Electronics N.V.
Member	Darnell, David	Systrends
Member	De Flou, Nele	GS1 Belgium & Luxembourg
Member	Dicks, Arne	GS1 Germany
Member	Duvinger, Karina	GS1 Sweden
Member	Foerderer, Klaus	GS1 Germany
Member	Gathmann, Stefan	GS1 Ireland
Member	Grangard, Anders	GS1 Global Office
Member	Harpell, Eileen	GS1 Community Room Staff
Member	Herregodts, Kurt	GS1 Belgium & Luxembourg
Member	Kempkes, Fred	Unilever N.V.
Member	Kernan, Brendan	GS1 Ireland
Member	Kidd, Robin	Nestle
Member	Krid, Anne-Claire	GS1 France

Function	Name	Company / organisation
Member	Lanoue, Tom	General Mills, Inc.
Member	Laur, Rita	GS1 Canada
Member	Lenman, Mia	GS1 Sweden
Member	Lerch, Hanjoerg	METRO Group
Member	Moberg, Dale	Axway
Member	Montes de Oca, Alejandra	GS1 Mexico
Member	Ng, Ella	GS1 Australia
Member	Peelen, Esther	GS1 Netherlands
Member	Pelekies, Andreas	GS1 Germany
Member	Perrier, Patricia	GS1 France
Member	Przybilla, Christian	GS1 Germany
Member	Pujol, Xavier	GS1 Spain
Member	Racek, Greg	Wal-Mart Stores, Inc.
Member	Repetto, Mirko	GS1 Italy
Member	Robba, Steven	1WorldSync Holdings, Inc.
Member	Rosell, Pere	GS1 Spain
Member	Rosenberg, Steven	GS1 US
Member	Schmid, Sue	GS1 Australia
Member	Schneider, Christian	GS1 Switzerland
Member	Sehorz, Eugen	GS1 Austria
Member	Sharma, Vishal	General Mills, Inc.
Member	Shimazaki, Ayako	GS1 Japan
Member	Sion, Emilie	GS1 France
Member	Souza, Nadia	GS1 Brasil
Member	Strand, Roman	GS1 Germany
Member	Tan, Milton	GS1 Malaysia
Member	Tompsett, Simon	Waitrose
Member	Trelle, Ute	1WorldSync Holdings, Inc.
Member	Tse, Steve	GS1 Hong Kong
Member	Tyson, Betty	Knouse Foods Cooperative, Inc
Member	Van den Bergh, Senne	GS1 Belgium & Luxembourg
Member	Van der Eijk, Pim	OASIS - Sonnenglanz Consulting BV
Member	Veldhuis, Saskia	Procter & Gamble Co.
Member	Welch, Shan	GS1 UK
Member	Westerkamp, Jan	GS1 Netherlands
Member	Wilson, Mary	GS1 US
Member	Windsperger, Bekki	Best Buy Co., Inc.
Member	Yang, Shaopeng	GS1 China
Member	Yusdiar, Dani	GS1 Indonesia
Member	Zwanziger, Greg	SUPERVALU

9.1.2 Development Team Members

Function	Name	Organisation
GSMP Process Lead	David Buckley	GS1 Global Office
Technical Development Lead	Miklos Bolyky	GS1 Global Office
Peer Review	Mark Van Eeghem	GS1 Global Office