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

Release 3.4.1, Draft, Nov 2019

Document Summary

Document Item	Current Value
Document Name	Receiving Advice Line Item Extension Cash Handling Business Message Standard (BMS)
Document Date	Nov 2019
Document Version	3.4.1
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	16-000247
01-Apr-2016	GS1 France	16-000248
01-Apr-2016	GS1 France	16-000249
01-Apr-2016	GS1 France	16-000250
01-Apr-2016	GS1 France	16-000251
01-Apr-2016	GS1 France	16-000252
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	Initial Document Creation
15-Oct-2018	BMS 3.4 – Draft for community review	Ewa Iwicka	BMS Release 3.4	See summary of changes
08-Nov-2019	BMS 3.4.1 – Issue 1	Radhika Chauhan	BMS Release 3.4.1	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 **Receiving 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, NONINFRINGMENT, FITNESS FOR PARTICULAR PURPOSE, OR ANY WARRANTY OTHER WISE 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

1.1 Introduction

Message Definition / Business need

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

Principles

Typically, the Receiving Advice serves as a announcement of the goods received and their condition. In the context of handling of suspected bank-notes, additional data must be provided. The data are exchanged via an extension to the Receiving Advice on line item level.
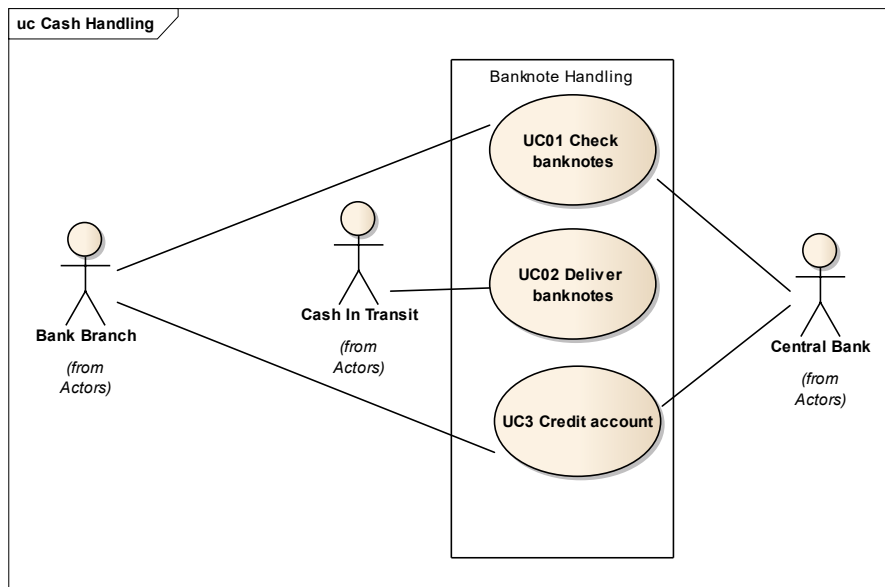
2 Business Context

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	Receive banknotes, check their condition, inform Bank branch whether customer account should be credited
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 received suspicious banknotes and has been supplied with data related to their condition. Central Bank informed Bank Branch whether the customer account will be credited.
Main Scenario	Begins when the Central Bank receives suspicious banknotes from Bank Branch and checks them against condition data received earlier. Continues with:

Step #	Actor	Activity Step
	Central Bank	Central Bank receives banknote condition data from Bank Branch
	Cash In Transit company (CIT)	CIT delivers banknotes to Central Bank.
	Central Bank	Central Bank checks the received banknotes and compares with condition data received beforehand.
	Central Bank	Central Bank informs Bank Branch about the results of the control and their decision whether customer's account should be credited.

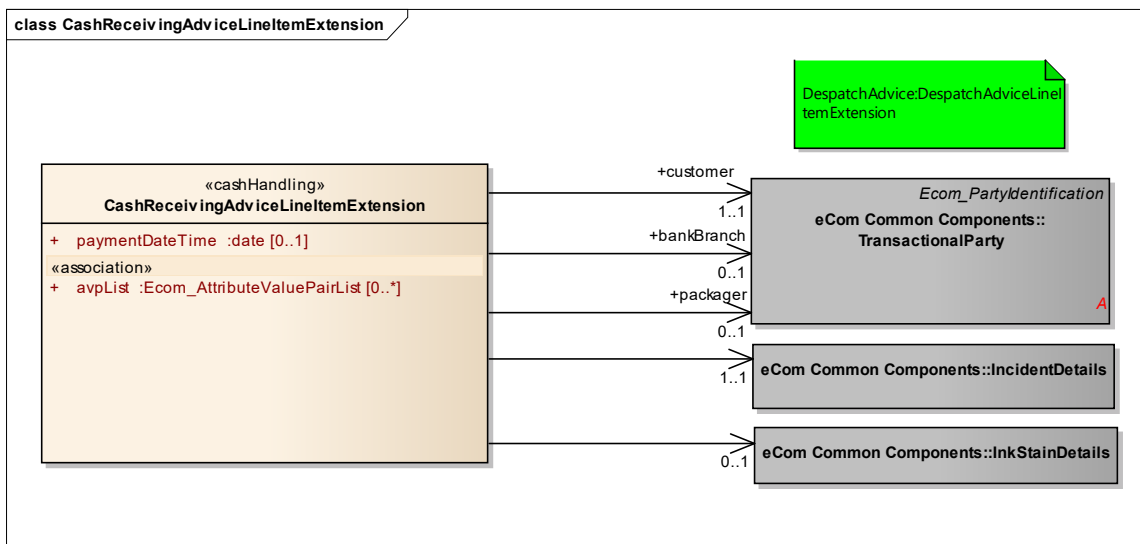|	
	Ends when the Bank Branch receives information from Central Bank whether or not the customer account will be credited.
Alternative Scenario(s)	Not Applicable
Related Rules	None

Activity diagram

Not Applicable

Communication diagram

Not Applicable

4 Business Information View

4.1 Cash Receiving Advice Line Item Extension

GDD Report

The content of the CashReceivingAdviceLineItemExtension 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:CashReceivingAdviceLineItemExtension

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Facets	Definition	Requirements
CashReceivingAdviceLineItemExtension					An extension to the Receiving Advice document used to enable handling of cash.	16-000247 16-000248 16-000249 16-000250 16-000251 16-000252
Association		InkStainDetails	0..1		Specifies detailed circumstances of ink-staining the suspicious bank notes.	WR 16-000252
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		IncidentDetails	1..1		The details of the cash related incident detection.	WR 16-000251
Association	bankBranch	TransactionalParty	0..1		Identifies bank branch that manages the cash terminal.	WR 16-000249
Attribute	cashTerminalIdentification	string	0..1		Identification of the cash terminal at which the operation has been performed by the customer.	WR 16-000248
Attribute	cashTerminalType	string	0..1		The type of the cash terminal at which the operation has been performed by the customer.	WR 16-000248

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

5   Business Message Examples

5.1   Example

Attribute	Value
ReceivingAdvice	
Document	
creationDateTime	2016-08-20 15:00
documentStatus	ORIGINAL
EntityIdentification (+despatchAdviceIdentification)	
entityIdentification	RA98718718
PartyIdentification (+contentOwner)	
gln	5412345000013
TransactionalParty (+shipper)	
gln	4098765000010
TransactionalParty (+receiver)	
gln	5412345000013
TransactionalParty (+shipTo)	
gln	5412345000037
DocumentReference (+despatchAdvice)	
EntityIdentification	
entityIdentification	DA349899
ReceivingAdviceLogisticUnit	
ReceivingAdviceLineItem	
lineItemNumber	1
despatchedQuantity	1
CashDespatchAdviceLineItemExtension	
paymentDateTime	2016-08-20 09:30
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

Attribute	Value
TransactionalParty (+bankBranch)	
gln	4098765000010
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 Handling Extension:
http://www.gs1.org/docs/ecom/xml/3/3.4/eCom-Trade_messages.html#RACashExtension

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	16-000247
	16-000248
	16-000249
	16-000250
	16-000251
	16-000252

7.2 BMS Release 3.4

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

7.3 BMS Release 3.4.1

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

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 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, Rebone	GS1 South Africa / Consumer Goods Council of South Africa
Member	Canada, ON	M3B 3L1
Member	Carlson, Jim	General Mills, Inc.

Function	Name	Company / organisation
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
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

Function	Name	Company / organisation
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

9.2 Development Team Members

Function	Name	Organisation
GSMP Process Lead	Jean-Luc Championd Tasha Wiehe	GS1
Standards Content Lead	Ewa Iwicka	GS1
Technical Development Lead	Ewa Iwicka	GS1
Peer Review		GS1
Technical Communications Review	Not Applicable	