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Business Requirements Document (BRAD) Reference

BRAD Title	BRAD Issue Date	BRAD Version
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Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change
12-Jan-2012	BMS 3.0 – Issue 1	Mark Van Eeghem	BMS Release 3.0	See summary of changes
01-May-2013	BMS 3.1 – Issue 1	Coen Janssen	BMS Release 3.1	See summary of changes
15-Sep-2014	BMS 3.2 – Issue 1	Ewa Iwicka	BMS Release 3.2	See summary of changes
01-Mar-2017	BMS 3.3 – Issue 1	Ewa Iwicka	BMS Release 3.3	See summary of changes
15-Oct-2018	BMS 3.4 – Draft for community review	Ewa Iwicka	BMS Release 3.4	See summary of changes
15-Oct-2018	BMS 3.4 – Issue 1	Jean-Luc Champion	BMS Release 3.4	See summary of changes



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1 Business Domain View

1.1 Introduction

Message Definition

The Buyer Reconciliation Of Request For Payment is a message that allows a buyer to respond to Requests For Payment either submitted individually or assigned to a batch, from a seller. The message reports to the Seller whether or not the Buyer was able to schedule the Requests For Payment to be paid through the accounts payable system.

Principles

Not applicable

1.2 References

Reference Number	Reference Name	Description
[ref1]	Business Requirements Document For BUYER RECONCILIATION of REQUEST(S) For Payment, Version 1.0.2, 08.07.2004	BRAD
[ref2]	Change Request #01-000018	CR
[ref3]	BMS eCom Domain Common Library 3.4	
[ref4]	BMS Shared Common Library 3.4	

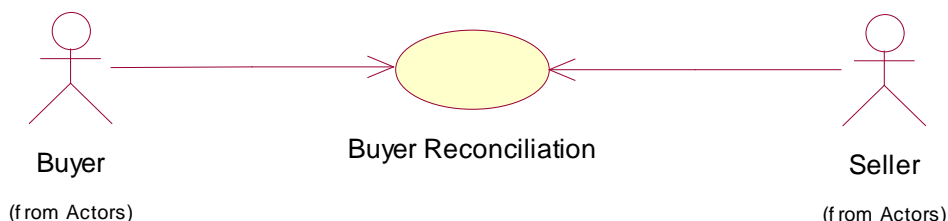
2 Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Pay
System Capabilities	GS1 System
Official Constraints	None

3 Business Transaction View

3.1 Business Transaction – Buyer Reconciliation

Use Case Diagram



Use Case Description

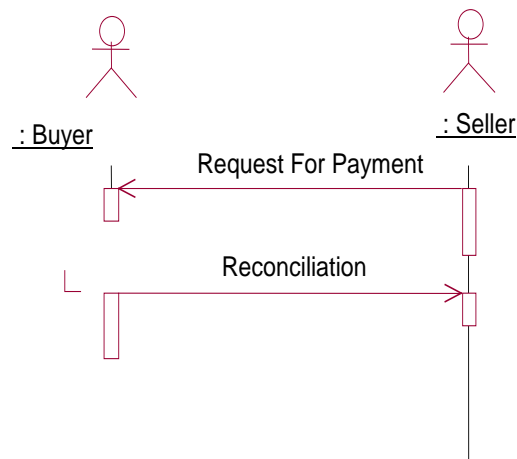
Use Case ID	UC-1												
Use Case Name	Buyer Reconciliation												
Use Case Description	The seller has sent one or more RFP(s) to the buyer. The buyer has agreed to furnish the seller information on the RFP(s) that could or could not be reconciled for payment through the Buyer’s payables system. The buyer sends a reconciliation document to the seller. The reconciliation will denote the acceptance of individual RFP(s) or a batch of RFP(s) and flag the status of the process as either accept, accept with errors or reject.												
Actors (Goal)	Buyer and Seller												
Performance Goals													
Preconditions	Both parties have established their trading partner agreement, aligned their data and are capable of sending and receiving transactions.												
Post conditions	Successful End Condition: Successful receipt of data by the seller. Successful End Condition: Unsuccessful receipt of the data by the seller.												
Scenario	<div>Begins when the Seller sends one or more RFP(s) with a batch identifier to the buyer.</div> <div>Continues with...</div> <div>Process Flow: Batch RFP(s)</div> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td>Buyer</td><td>Buyer receives the batch of RFP(s).</td></tr><tr><td>2</td><td>Buyer</td><td>Buyer processes the batch of RFP(s).</td></tr><tr><td>3</td><td>Buyer</td><td>Buyer sends a reconciliation for the batch of RFP's to the seller.</td></tr></table> <div>Ends when the seller receives a reconciliation document for the RFP(s) from the buyer</div>	Step #	Actor	Activity Step	1	Buyer	Buyer receives the batch of RFP(s).	2	Buyer	Buyer processes the batch of RFP(s).	3	Buyer	Buyer sends a reconciliation for the batch of RFP's to the seller.
Step #	Actor	Activity Step											
1	Buyer	Buyer receives the batch of RFP(s).											
2	Buyer	Buyer processes the batch of RFP(s).											
3	Buyer	Buyer sends a reconciliation for the batch of RFP's to the seller.											
Alternative Scenario	<div>Begins when the Seller sends one or more RFP(s) to the buyer</div> <div>Continues with...</div> <div>Process Flow: Single RFP(s)</div> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr></table>	Step #	Actor	Activity Step									
Step #	Actor	Activity Step											

	1	Buyer	Buyer receives the RFP(s).
	2	Buyer	Buyer processes the RFP(s).
	3	Buyer	Buyer sends a reconciliation of the RFP(s) to the seller
	Ends when the seller receives a reconciliation document for the RFP(s) from the buyer		
Related Requirements	None		
Related Rules	None		

Activity Diagram(s)

Not Applicable

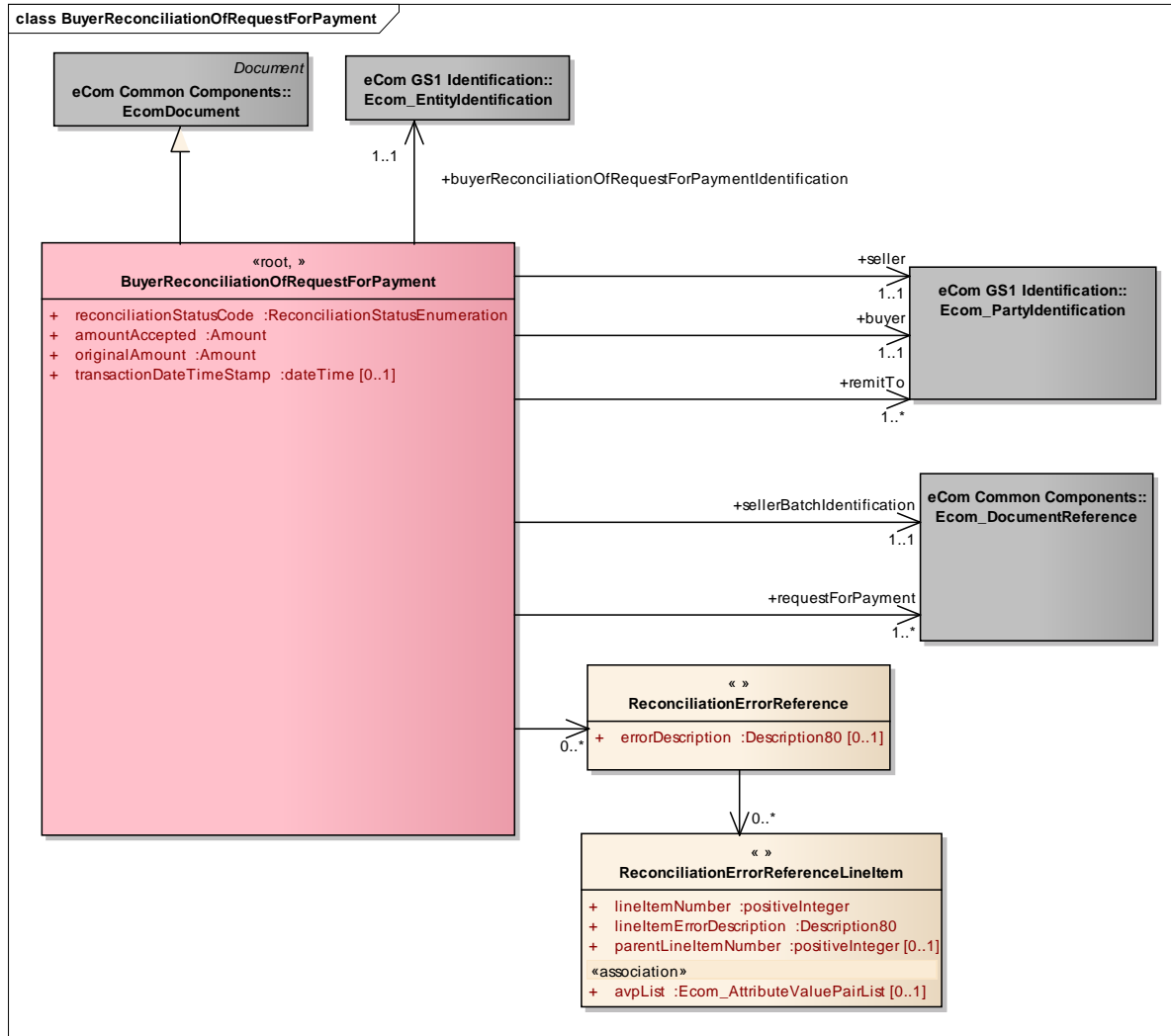
Sequence Diagram(s)



4 Business Information View

4.1 Buyer Reconciliation Of Request For Payment

Class diagram



GDD report

The content of the BuyerReconciliationOfRequestForPayment 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:BuyerReconciliationOfRequestForPayment

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
BuyerReconciliationOfRequestForPayment				This message allows a buyer to respond to Requests For Payment either submitted individually or assigned to a batch, from a seller. The document reports to the Seller whether or not the Buyer was able to schedule the RFP's for payment through the accounts payable system.	
Association		ReconciliationErrorReference	0..*	Information on the Request for Payment that have been found to contain errors.	
Association	buyer	Ecom_PartyIdentification	1..1	Identifies the party to which products or services are sold.	WR 15-000314
Association	buyerReconciliationOfRequestForPaymentIdentification	Ecom_EntityIdentification	1..1	Unique identifier for the Buyer Reconciliation Of Request For Payment Message.	WR 15-000314
Association	remitTo	Ecom_PartyIdentification	0..1	The party (account owner) that receives a payment when such party is not the same as the seller.	WR 15-000314
Association	requestForPayment	Ecom_DocumentReference	1..*	Reference to the Request for Payment documents being reconciled.	WR 15-000314
Association	seller	Ecom_PartyIdentification	1..1	Identifies the party which sells products or services to a buyer.	WR 15-000314
Association	sellerBatchIdentification	Ecom_DocumentReference	1..1	Identifier number assigned by the seller to a batch of Requests for Payment (RFP's).	WR 15-000314
Generalization		EcomDocument		Basic information about the content of the message including version number, creation date and time.	
Attribute	reconciliationStatusCode	ReconciliationStatusEnumeration	1..1	Code specifying the status of the reconciliation. Example: Accept.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	amountAccepted	Amount	1..1	The amount of payment made to settle a request for payment that was accepted by the buyer or the buyer's financial institution.	
Attribute	originalAmount	Amount	1..1	The original amount of a request for payment or a batch of requests for payment.	
Attribute	transactionDateTimeStamp	dateTime	0..1	The identification of the date and time that a reconciliation of a request for payment was transacted.	

GDD Report

The content of the ReconciliationErrorReference 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:ReconciliationErrorReferenceLineItem

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ReconciliationErrorReference				Information on the Request for Payment that have been found to contain errors.;renamed from ErrorReference	
Association		ReconciliationErrorReferenceLineItem	0..*	Information on the line items in the Request for Payment containing the errors.	
Association	requestForPaymentWithError	Ecom_DocumentReference	1..1	Reference to the Request For Payment containing the error(s).	WR 15-000314
Attribute	errorDescription	Description80	0..1	A description of an error or errors in a request for payment (RFP). ;renamed from badData	

GDD Report

The content of the ReconciliationErrorReferenceLineItem 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:ReconciliationErrorReferenceLineItem

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ReconciliationErrorReferenceLineItem				Information on a line item in the Request for Payment containing the error(s).	
Attribute	lineItemNumber	positiveInteger	1..1	Provides the line number associated to the line item containing the error.	
Attribute	lineItemErrorDescription	Description80	1..1	A description of an error or errors at the line item level in a request for payment (RFP).	
Attribute	parentLineItemNumber	positiveInteger	0..1	The number of line item containing information about the parent of the current item. It allows establishing hierarchical link between the two items.	
Attribute	avpList	Ecom_AttributeValuePairList	0..1	Temporary attributes introduced between minor versions.	



Note: Reference Shared Common Library Business Message (BMS) Release 3.4 and eCom Domain Common Library Business Message (BMS) Release 3.4 for all common information.

4.2 Enumerations (message specific)

4.2.1 ReconciliationStatusEnumeration

CodeValue	Description
ACCEPT	Reconciliation Status is accepted.
ACCEPT_WITH_ERRORS	Reconciliation Status is accepted with errors.
REJECT	Reconciliation Status is rejected.

4.3 Code List

Not applicable

5 Business Message Examples

5.1 Example 1

This is an example of the Buyer Reconciliation Of Request For Payment message.

Party Information

GS1 Global Location Number	Party Type
5412345000013	Buyer
4098765000010	Seller

Message Example

Attribute	Value
BuyerReconciliationOfRequestForPayment	
creationDateTime	2011-04-13 11.00
documentStatusCode	ORIGINAL
reconciliationStatusCode	ACCEPT
amountAccepted	380 EUR
originalAmount	480 EUR
EntityIdentification (+buyerReconciliationOfRequestForPaymentIdentification)	
entityIdentification	BRORFP1
PartyIdentification (+contentOwner)	
gln	5412345000013
PartyIdentification (+seller)	
gln	4098765000010
PartyIdentification (+buyer)	
gln	5412345000013
DocumentReference (+requestForPayment)	
entityIdentification	RFP222
creationDateTime	2011-04-12 11:00
DocumentReference (+requestForPayment)	
entityIdentification	RFP333
creationDateTime	2011-04-12 11:30
PartyIdentification (+contentOwner)	
gln	4098765000010
DocumentReference (+sellerBatchIdentification)	
entityIdentification	SBI02
PartyIdentification (+contentOwner)	
gln	4098765000010

6 Implementation Considerations

6.1 User Guide

The Functional User Guide contains more information about the structure and content of the Buyer Reconciliation Of Request For Payment message: http://www.gs1.org/docs/ecom/xml/3/3.4/eCom-Trade_messages.html#BuyerReconciliationOfRequestForPayment

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 3.0

Change	Associated CR Number
Updated for Major Release 3.0, BMS version 3.0.0: Updated to reflect changes in modelling methodology.	N/A

7.2 BMS Release 3.1

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

Change	Associated CR Number
fixed typo in class diagram and GDD report: requestForPaymenWithError now states requestForPaymentWithError	N/A

7.3 BMS Release 3.2

Change	Associated WR
<div> <div>class BuyerReconciliationOfRequestForPayment - maintenance view</div> <div> <div>«root, »</div> <div> <div>BuyerReconciliationOfRequestForPayment</div> <div> + reconciliationStatusCode: ReconciliationStatusEnumeration + amountAccepted: Amount + originalAmount: Amount + transactionDateTimeStamp: dateTime [0..1] </div> </div> </div> <div> <div>maintenance</div> <div>Change: (Verified) 3.2 changed generalisation from Document to eComDocument class to include AVP (WR 14-110)</div> </div> </div>	14-000110 Add Attribute Value Pair at the root, line item and sub line item levels

Change	Associated WR
<p>class ReconciliationErrorReferenceLineItem - maintenance view</p> <pre> classDiagram class ReconciliationErrorReferenceLineItem { +lineItemNumber: positiveInteger +lineItemErrorDescription: Description80 +parentLineItemNumber: positiveInteger [0..1] «association» +avpList: Ecom_AttributeValuePairList [0..1] } </pre> <p><i>maintenance</i></p> <p>Change: (Verified) 3.2 added +avpList (WR 14-110) Change: (Verified) 3.2 added +parentLineItemNumber (WR 14-021 & 14-044)</p>	<p>14-000021 & 14-000044</p> <p>Add a reference to parent line number to all LineItem classes, to support hierarchical items.</p> <p>14-000110</p> <p>Add Attribute Value Pair at the root, line item and sub line item levels</p>

7.4 BMS Release 3.3

Change	Associated WR
<p>Created Ecom_EntityIdentification class and changed association from the previous EntityIdentification</p> <pre> classDiagram class BuyerReconciliationOfRequestForPayment { «root, » +reconciliationStatusCode :ReconciliationStatusEnumeration +amountAccepted :Amount +originalAmount :Amount +transactionDateTimeStamp :dateTime [0..1] } class Ecom_EntityIdentification { «maintenance» } BuyerReconciliationOfRequestForPayment "1..1" --> "1" Ecom_EntityIdentification : +buyerReconciliationOfRequestForPaymentIdentification </pre> <p><i>maintenance</i></p> <p>Change: (New) 3.3 New class (WR 15-314)</p>	<p>15-000314</p> <p>Make GS1 identification keys optional in GS1 EDI XML</p>
<p>Created Ecom_PartyIdentification class and changed association from the previous PartyIdentification</p> <pre> classDiagram class BuyerReconciliationOfRequestForPayment { «root, » +reconciliationStatusCode :ReconciliationStatusEnumeration +amountAccepted :Amount +originalAmount :Amount +transactionDateTimeStamp :dateTime [0..1] } class Ecom_PartyIdentification { «maintenance» } BuyerReconciliationOfRequestForPayment "1..1" --> "1" Ecom_PartyIdentification : +buyerReconciliationOfRequestForPaymentPartyIdentification </pre> <p><i>maintenance</i></p> <p>Change: (Complete) 3.2 changed generalisation from Document to eComDocument class to include AVP (WR 14-110) Change: (New) 3.3 Changed associations from EntityIdentification to Ecom_EntityIdentification Change: (New) 3.3 changed associations from PartyIdentification to Ecom_PartyIdentification (WR 15-314)</p>	<p>15-000314</p> <p>Make GS1 identification keys optional in GS1 EDI XML</p>

Change	Associated WR
<p>Created Ecom_DocumentReference class and changed association from the previous DocumentReference</p> <p><i>class BuyerReconciliationRequestForPayment - maintenance view</i></p> <pre> classDiagram class BuyerReconciliationRequestForPayment { +reconciliationStatusCode : ReconciliationStatusEnumeration +amountAccepted : Amount +originalAmount : Amount +transactionDateTimeStamp : dateTime [0..1] } class Ecom_DocumentReference { +referenceDocumentUri : String } BuyerReconciliationRequestForPayment "1" -- "1..1" Ecom_DocumentReference : +sellerBatchIdentification BuyerReconciliationRequestForPayment "1" -- "1..*" Ecom_DocumentReference : +requestForPayment </pre> <p><i>maintenance</i></p> <p>Change: (Complete) 3.2 changed generalisation from Document to eComDocument class to include AVP (WR 14-110) Change: (New) 3.3 Changed associations from EntityIdentification to Ecom_EntityIdentification Change: (New) 3.3 changed associations from PartyIdentification to Ecom_PartyIdentification (WR 15-314)</p> <p><i>eCom Common Components:Ecom_DocumentReference</i></p> <p><i>maintenance</i></p> <p>Change: (New) 3.3 added +referenceDocumentUri (WR 16-261) Change: (New) 3.3 New class (WR 15-314)</p>	<p>15-000314</p> <p>Make GS1 identification keys optional in GS1 EDI XML</p>

7.5 BMS Release 3.4

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



8 Appendices

Not Applicable

9 Acknowledgements

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.
Member	Chresta, Richard	GS1 Switzerland
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Member	Cox, Marc	Philips Electronics N.V.
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Member	Harpell, Eileen	GS1 Community Room Staff
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Function	Name	Company / organisation
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Member	Rosell, Pere	GS1 Spain
Member	Rosenberg, Steven	GS1 US
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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

9.2 Development Team Members

Function	Name	Organisation
GSMP Process Lead	Jean-Luc Champion	GS1 Global Office
Technical Development Lead	Ewa Iwicka	GS1 Global Office
Peer Review	Mark Van Eeghem	GS1 Global Office