GS1

The Global Language of Business

Product Recall Business Message Standard (BMS)

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Business Requirements Document (BRAD) Reference

BRAD Title	BRAD Issue Date	BRAD Version
Product Recall	June 6, 2011	Draft 7

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
08-Nov-2019	BMS 3.4.1 – Issue 1	Radhika Chauhan	BMS Release 3.4.1	See summary of changes

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Table of Contents

1   Business Domain View

1.1   Introduction

Message Definition

Product Recall Notification Message Definition

The Product Recall Notification message notifies involved parties in the supply chain of the need to remove specific products (traceable items) which may pose a health and safety risk to consumers.

Product Removal Confirmation Message Definition

The Product Removal Confirmation message enables involved parties to confirm which products (traceable items) they removed from the supply chain based on the request in the Product Recall Notification.

Product Recall Closeout Notification Message Definition

Product Recall Closeout Notification enables the Product Recall Initiator to communicate that an earlier issued Product Recall Notification is no longer active / has been completed.

Principles

Organisations, consumer / end users and regulators in markets around the world have an interest in establishing a common method to recall products at various points of the supply chain. The need exists for a standard set of business processes and the supporting data, enabling traceability partners in a supply chain to quickly and efficiently initiate a Product Recall and track its progress through to its conclusion (meaning the identified product is no longer available in the supply chain).

This BMS is a part of the global GS1 standard for product recall enabling the effective communication and process to conduct a product recall.

1.2   References

Reference Name	Description
BRAD Product Recall (GS1, 2011)	The document describes the business process and data requirements to create the Product Recall Notifications, Product Removal Confirmations and Product Recall Closeouts. The scope of the standard is applicable across multiple industries and relevant to all segments of the supply chain from initial ingredients/inputs through to finished goods
BMS Shared Common Library 3.4	Provides the shared common artefacts
BMS eCom Common Library 3.4	Provides the eCom common artefacts

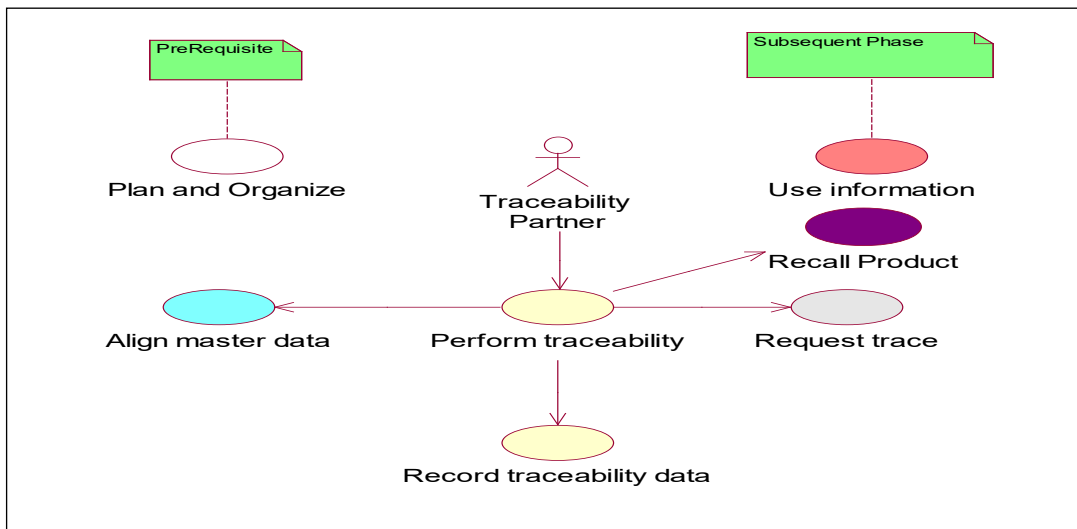# 2   Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Traceability sub process product recall process
System Capabilities	GS1 System
Official Constraints	None

3 Business Transaction View

3.1 Business Collaboration – Perform Traceability

Use Case Diagram

Note: Purple fonts represent changes to Global Traceability Standard (GTS)

Use Case Definition

Use Case ID	UC-1
Use Case Name	Perform traceability
Use Case Description	Provides the processes involved to perform traceability.
Actors (Goal)	Traceability Partner's goal is to perform traceability.
	Product Creator, Product Source, Product Recipient, Transporter, Brand Owner, Traceability Data Creator, Traceability Data Source, Traceability Data Recipient, and Trace Request Initiator.
	Product Recall Initiator, Product Recall Approver, Product Recall Recipient
Performance Goals	The ability to track and trace items across the supply chain. At each step in the process there is basic data that needs to be collected from Traceability Data Source and kept and shared with Traceability Data Recipient. All Traceability Partners involved in the supply chain must systematically associate the physical flow of materials, intermediate and finished products with the information flow. To ensure the continuity of the information flow, each Traceability Partner must communicate pre-defined and agreed traceability data to the next Traceability Partner.
Preconditions	Traceability Partners in the supply chain have planned and organized their systems and processes to perform traceability.
Post conditions	Traceability Partners in the supply chain are able to perform traceability.
Scenario	Perform Traceability
	Begins when: Traceability Partner wishes to conduct future business.
	(Template Form)
	Continues with...
	Step #
	Primary Actor
	Secondary Actor (If necessary)

	Activity Step Step: 1 Actor: Traceability Partner Activity Step: Align master data Step: 2 Actor: Traceability Partner Activity Step: Record traceability data Step: 3 Actor: Traceability Partner Activity Step: Request Trace Ends when: The trace request initiator receives the requested information or receives the message that the information cannot be found unless the following step is enacted. Step: 4 Actor: Traceability Partner Activity Step: Recall Product Ends when: The Product Recall Closeout Acknowledgement is returned to the Product Recall Initiator.
Alternative Scenario	No alternative scenarios
Related Requirements	Related Business Requirements contained in sub use cases.
Related Rules	Related Business Rules contained in sub use cases.

Activity Diagram

Not applicable

Sequence Diagrams

Not Applicable

3.1.1 Business Process – Recall Product

Note: The Product Recall Use Case sections below are new additions to GTS.

Use Case Diagram

Use Case Definition

Use Case ID	UC-1.4
Use Case Name	Recall Product
Use Case Description	Provides the processes involved to recall a product.
Actors (Goal)	Product Recall Initiator, Product Recall Approver, Product Recall Recipient goal is to fulfil the Product Recall process.
Performance Goals	The traceability partner's goal is to draft and issue a Product Recall Notification, take action regarding the Product Recall Notification, issue a Product Removal Confirmation, draft and issue Product Recall Closeout, and close out the Product Recall.
Preconditions	The Product Recall Initiator confirms there is a need to issue a Product Recall Notification.
Post conditions	Traceability Partners confirms the Product Recall Closeout.
Scenario	Recall Product Begins when: There is a need for Product Recall. Step: 1a Primary Actor: Product Recall Initiator Activity Step: Initiates the draft Product Recall Notification (PRN). Step: 1b

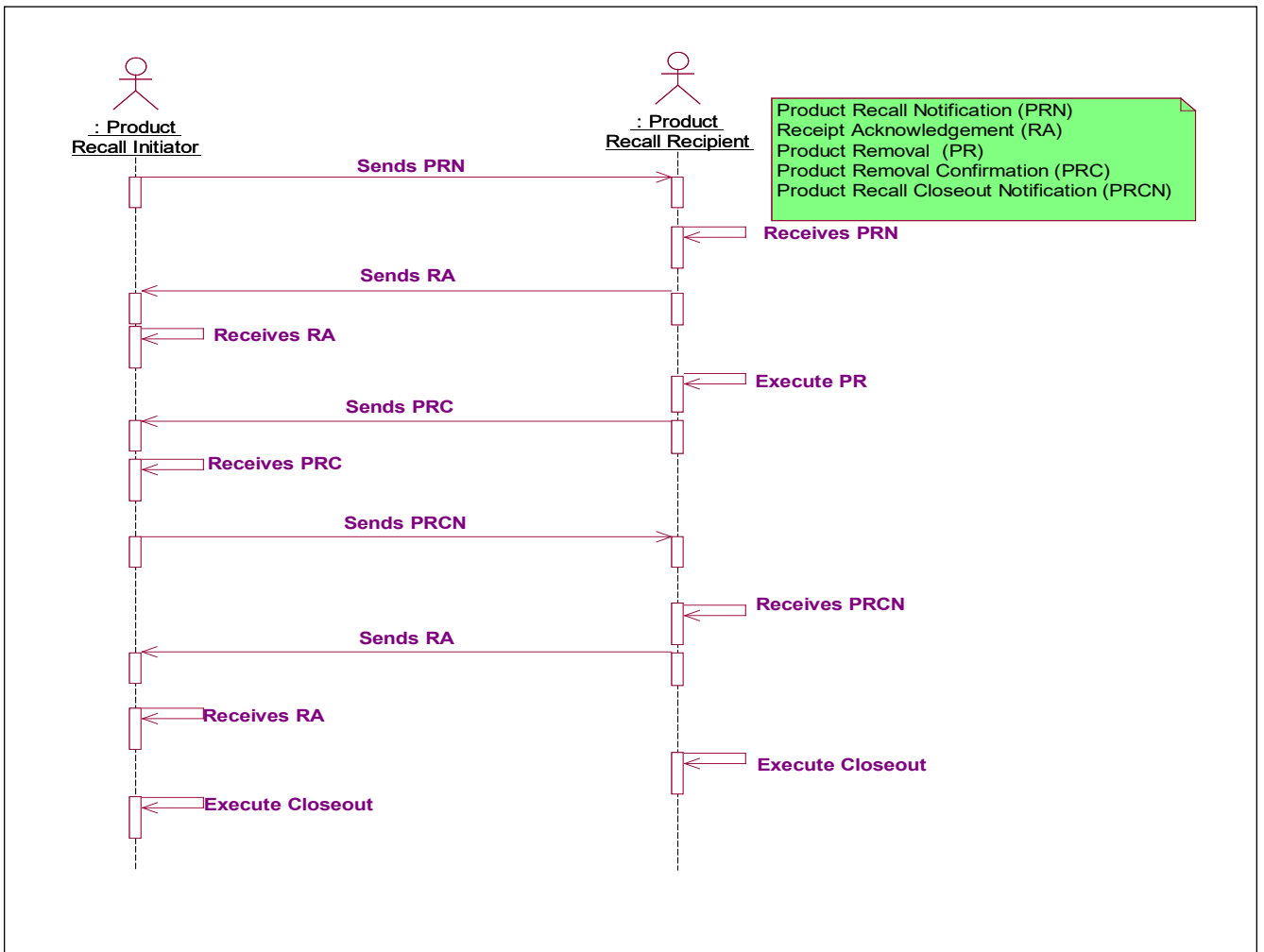| Use Case ID	UC-1.4
	Primary Actor: Product Recall Approver
	Secondary Actor: Product Recall Initiator
	Activity Step:
	Product Recall Approver reviews draft PRN and either approves or rejects it.
	Product Recall Approver approves draft PRN.
	Product Recall Approver sends approval to Product Recall Initiator and issues PRN to the Product Recall Recipient.
	Step: 2a
	Primary Actor: Product Recall Recipient
	Activity Step:
	Product Recall Recipient receives PRN and records internally.
	Step: 2b
	Primary Actor: Product Recall Recipient
	Secondary Actor: Product Recall Approver and/or Product Recall Initiator
	Activity Step:
	Product Recall Recipient sends Receipt Acknowledgement (RA)
	Product Recall Approver and/or Product Recall Initiator receive RA. Note some initiator organisation system can automatically receive a message.
	Step: 3a
	Primary Actor: Product Recall Recipient
	Activity Step:
	Product Recall Recipient begins executing product recall.
	i) Stops forward logistics
	ii) Identifies product quantity in control of recipients
	iii) Defines success criteria
	iv) Executes reverse logistics or disposal
	Step 3b
	Primary Actor: Product Recall Recipient
	Secondary Actor: Product Recall Approver
	Activity Step:
	Product Recall Recipient sends a Product Removal Confirmation (PRC).
	Product Recall Approver receives PRC.
	Step 4a
	Primary Actor: Product Recall Initiator
	Secondary Actor: Product Recall Approver
	Activity Step:
	Product Recall Initiator initiates draft Product Recall Closeout Notification (PRCN).
	Product Recall Initiator sends draft PRCN to Product Recall Approver
	Step: 4b
	Primary Actor: Product Recall Approver
	Secondary Actor: Product Recall Initiator
	Activity Step:
	Product Recall Approver receives draft PRCN from Product Recall Initiator.
	Product Recall Approver reviews draft PRCN and either approve or reject it.
	Product Recall Approver approves draft PRCN.
	Product Recall Approver sends approval to Product Recall Initiator.

Use Case ID	UC-1.4
	Product Recall Initiator sends PRCN to Product Recall Recipient.
	Step: 5a
	Primary Actor: Product Recall Recipient
	Secondary Actor: Product Recall Approver
	Activity Step:
	Product Recall Recipient receives PRCN
	Product Recall Recipient records internally
	Step: 5b
	Primary Actor: Product Recall Recipient
	Secondary Actor: Product Recall Approver
	Activity Step:
	Product Recall Recipient sends RA
	Product Recall Approver receives RA
	Ends: Step: 6
	Primary Actor: Product Recall Approver, Product Recall Initiator, Product Recall Recipient
	Activity Step:
	Product Recall Approver, Product Recall Initiator, Product Recall Recipient execute closeout.
Alternative Scenario	No alternative scenarios
Related Requirements	None
Related Rules	*None*

Activity Diagram

Not applicable
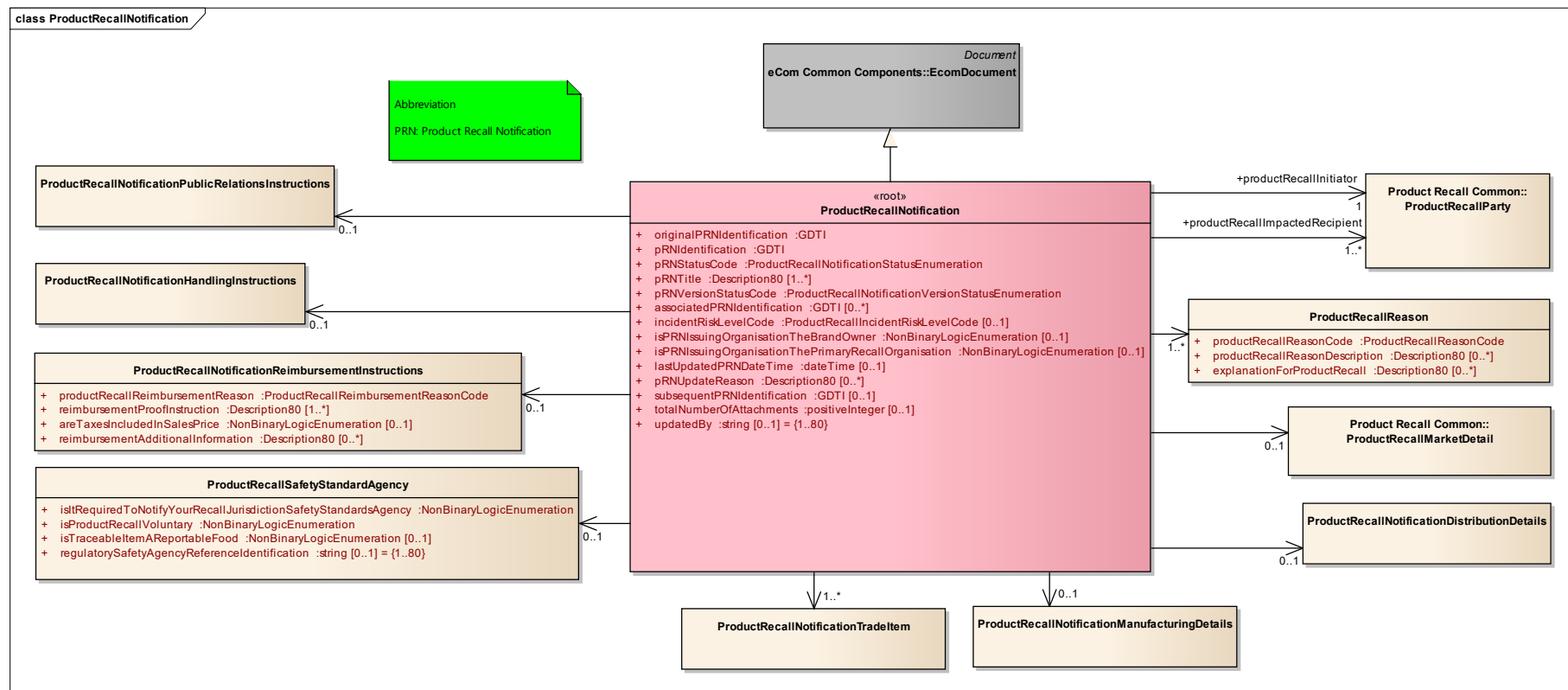
Sequence Diagrams

6 Step Initial Product Recall Process.

1. Issue Product Recall Notification
2. Receive Product Recall Notification
3. Issue Product Removal Confirmation and remove Product
4. Issue Product Recall Closeout Notification
5. Receive Product Recall Closeout Notification
6. Execute Closeout Record internally

4 Business Information View

4.1 Product Recall Notification

Class diagram

class ProductRecallNotification

Abbreviation
PRN: Product Recall Notification

Document
eCom Common Components::EcomDocument

ProductRecallNotificationPublicRelationsInstructions

0..1

ProductRecallNotificationHandlingInstructions

0..1

ProductRecallNotificationReimbursementInstructions
+ productRecallReimbursementReason :ProductRecallReimbursementReasonCode
+ reimbursementProofInstruction :Description80 [1..*]
+ areTaxesIncludedInSalesPrice :NonBinaryLogicEnumeration [0..1]
+ reimbursementAdditionalInformation :Description80 [0..*]

0..1

ProductRecallSafetyStandardAgency
+ isItRequiredToNotifyYourRecallJurisdictionSafetyStandardsAgency :NonBinaryLogicEnumeration
+ isProductRecallVoluntary :NonBinaryLogicEnumeration
+ isTraceableItemAReportableFood :NonBinaryLogicEnumeration [0..1]
+ regulatorySafetyAgencyReferenceIdentification :string [0..1] = {1..80}

0..1

«root»
ProductRecallNotification
+ originalPRNIdentification :GDTI
+ pRNIdentification :GDTI
+ pRNStatusCode :ProductRecallNotificationStatusEnumeration
+ pRNTitle :Description80 [1..*]
+ pRNVersionStatusCode :ProductRecallNotificationVersionStatusEnumeration
+ associatedPRNIdentification :GDTI [0..*]
+ incidentRiskLevelCode :ProductRecallIncidentRiskLevelCode [0..1]
+ isPRNIssuingOrganisationTheBrandOwner :NonBinaryLogicEnumeration [0..1]
+ isPRNIssuingOrganisationThePrimaryRecallOrganisation :NonBinaryLogicEnumeration [0..1]
+ lastUpdatedPRNDateTime :dateTime [0..1]
+ pRNUpdateReason :Description80 [0..*]
+ subsequentPRNIdentification :GDTI [0..1]
+ totalNumberOfAttachments :positiveInteger [0..1]
+ updatedBy :string [0..1] = {1..80}

+productRecallInitiator

**Product Recall Common::
ProductRecallParty**

1

+productRecallImpactedRecipient

1..*

1..*

ProductRecallReason
+ productRecallReasonCode :ProductRecallReasonCode
+ productRecallReasonDescription :Description80 [0..*]
+ explanationForProductRecall :Description80 [0..*]

**Product Recall Common::
ProductRecallMarketDetail**

0..1

ProductRecallNotificationDistributionDetails

0..1

1..*

ProductRecallNotificationTradeItem

0..1

ProductRecallNotificationManufacturingDetails

GDD report

The content of the ProductRecallNotification class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallNotification

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ProductRecallNotification				Contains the product recall notification details.	
Association		ProductRecallNotificationDistributionDetails	0..1	Provides the product recall notification distribution details.	brad_product_recall:PRN.76
Association		ProductRecallNotificationTradeItem	1..*	Provides the product recall notification trade item details.	brad_product_recall:PRN.37
Association		ProductRecallNotificationReimbursementInstructions	0..1	Provides the product recall notification reimbursement instructions.	brad_product_recall:PRN.134
Association		ProductRecallMarketDetail	0..1	Provides the product recall market details.	brad_product_recall:PRN.8
Generalization		EcomDocument		Basic information about the content of the message including version number, creation date and time.	WR 14-000110
Association	productRecallImpactedRecipient	ProductRecallParty	1..*	Provides the party identification, address information of the organisation receiving the Product Recall or Withdrawal Notification.	brad_product_recall:PRN.59,60,61,64,65,66,67,68,69,70
Association		ProductRecallNotificationHandlingInstructions	0..1	Provides the handling instructions.	brad_product_recall:PRN.128
Association		ProductRecallNotificationManufacturingDetails	0..1	Provides the product recall notification manufacturing details.	brad_product_recall:PRN.54
Association		ProductRecallReason	1..*	Describes why the product recall or withdrawal notification is being issued.	brad_product_recall:PRN.28

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		ProductRecallNotificationPublicRelationsInstructions	0..1	Provides the public relations instructions.	brad_product_recall:PRN.113
Association		ProductRecallSafetyStandardAgency	0..1	Provides the product recall safety standards agency.	brad_product_recall:PRN.19
Association	productRecallInitiator	ProductRecallParty	1..1	Provides the party identification, address information of the organisation issuing the Product Recall or Withdrawal Notification.	brad_product_recall:PRN.59,60,61,64,65,66,67,68,69,70
Attribute	originalPRNIdentification	GDTI	1..1	This is the identification of the first product recall notification created. Each product recall or withdrawal notification created is assigned a globally unique GDTI for accurate identification of each notification record, to better track updates and for global interoperability. A GDTI (Global Document Type Identifier) is a GS1 Key that provides unique document type identification.	brad_product_recall:PRN.2
Attribute	pRNIdentification	GDTI	1..1	Each product recall or withdrawal notification created is assigned a globally unique Global Document Type Identifier (GDTI) for accurate identification of each notification record, to better track updates and for global interoperability. A GDTI is a GS1 Key that provides unique document type identification.	brad_product_recall:PRN.1
Attribute	pRNStatusCode	ProductRecallNotificationStatusEnumeration	1..1	This is the current status of the Product Recall or Withdrawal Notification.	brad_product_recall:PRN.18
Attribute	pRNTitle	Description80	1..*	The title or name of the issued product recall or withdrawal notification used to briefly describe the product recall.	brad_product_recall:PRN.3_PRCN.11
Attribute	pRNVersionStatusCode	ProductRecallNotificationVersionStatusEnumeration	1..1	Indicates if the Product Recall or Withdrawal Notification is Initial or an Update.	brad_product_recall:PRN.4

| Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	associatedPRNIdentification	GDTI	0..*	References specific Product Recall or Withdrawal Identification(s) used before in a earlier Product Recall or Withdrawal Notification.	brad_product_recall:PRN.6
Attribute	incidentRiskLevelCode	ProductRecallIncidentRiskLevelCode	0..1	An assessment of the threat and liability level from a list of classes or categories, if the known level of threat for the recalled / withdrawn traceable item is available.	brad_product_recall:PRN.14
Attribute	isPRNIssuingOrganisationTheBrandOwner	NonBinaryLogicEnumeration	0..1	Specifies whether the organisation issuing the product recall or withdrawal notification is the traceable item brand owner.	brad_product_recall:PRN.62
Attribute	isPRNIssuingOrganisationThePrimaryRecallOrganisation	NonBinaryLogicEnumeration	0..1	Specifies whether the organisation issuing the product recall or withdrawal notification assumes primary responsibility.	brad_product_recall:PRN.63
Attribute	lastUpdatedPRNDateTime	dateTime	0..1	This is the date time the notification was last updated by a user in your organisation.	brad_product_recall:PRN.5
Attribute	pRNUpdateReason	Description80	0..*	Provide the reason why this notification has been extended, updated, or expanded. Typical reasons could include additional batches have been found to be defective, or additional distribution areas have been identified.	brad_product_recall:PRN.5
Attribute	subsequentPRNIdentification	GDTI	0..1	Identifies what update(s) have been created based upon a given Product Recall or Withdrawal Notification.	brad_product_recall:PRN.7
Attribute	totalNumberOfAttachments	positiveInteger	0..1	Provides the total number of attachments included in the Product Recall Notification.	brad_product_recall:PRN.36
Attribute	updatedBy	string	0..1	The first name and last name of the individual who updated the Product Recall or withdrawal notification.	brad_product_recall:PRN.17
ProductRecallSafetyStandardAgency				Contains the product recall safety standards agency details.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	isItRequiredToNotifyYourRecallJurisdictionSafetyStandardsAgency	NonBinaryLogicEnumeration	1..1	An indication that there is a requirement based on the type of traceable item, classification of recall, or other criteria for the local recall jurisdiction regulatory body or safety standards agency to be notified of this product recall notification.	brad_product_recall:PRN.19
Attribute	isProductRecallVoluntary	NonBinaryLogicEnumeration	1..1	Indicates if the product recall is voluntary or mandatory. A voluntary recall is any product recall that is not required by regulations.	brad_product_recall:PRN.22
Attribute	isTraceableItemAReportableFood	NonBinaryLogicEnumeration	0..1	An indication that the traceable item is a reportable food for this recall notification.	brad_product_recall:PRN.20
Attribute	regulatorySafetyAgencyReferenceIdentification	string	0..1	A responsible party is required to submit a safety reference number to their local recall jurisdiction safety standards agency.	brad_product_recall:PRN.21
ProductRecallReason				Describes why the product recall or withdrawal notification is being issued.	
Attribute	productRecallReasonCode	ProductRecallReasonCode	1..1	Describes why the product recall or withdrawal notification is being issued.	brad_product_recall:PRN.28
Attribute	productRecallReasonDescription	Description80	0..*	Provide additional information pertaining to the recalled traceable item.	brad_product_recall:PRN.30
Attribute	explanationForProductRecall	Description80	0..*	Brief explanations as to what prompted this product recall notification to be issued.	brad_product_recall:PRN.29

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.

4.1.1   Product Recall Notification Distribution Details

Class Diagram
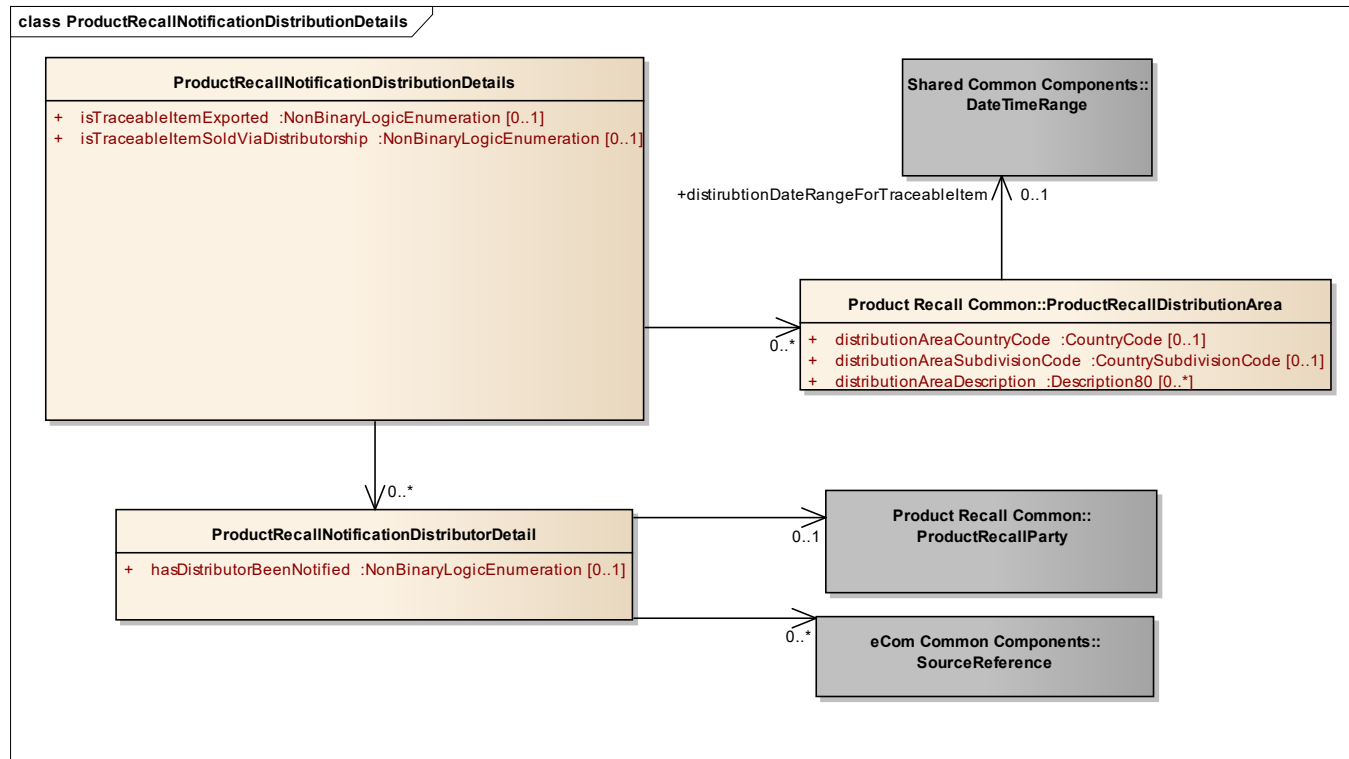
GDD Report

The content of the ProductRecallNotificationDistributionDetails class, its structure and component definitions can be accessed in the Global Data Dictionary:

http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallNotificationDistributionDetails

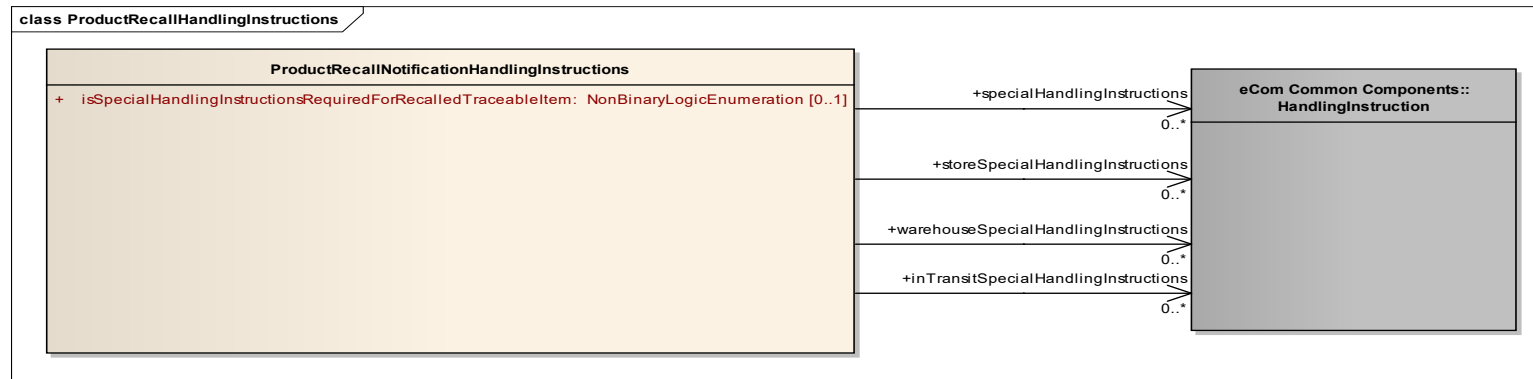| Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ProductRecallNotification DistributionDetails				Provides the product recall notification distribution details.	brad_product_recall:PRN.76

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Association		ProductRecallDistributionArea	0..*	Provides the product recall distribution area details.	brad_product_recall:PRN.23.24.25.26.27
Association		ProductRecallNotificationDistributorDetail	0..*	Provides the product recall distribution details.	
Attribute	isTraceableItemExported	NonBinaryLogicEnumeration	0..1	Indicates whether the traceable item being recalled is also exported to other countries.	brad_product_recall:PRN.76
Attribute	isTraceableItemSoldViaDistributorship	NonBinaryLogicEnumeration	0..1	Specifies whether the traceable item is sold via distributorship.	brad_product_recall:PRN.71
ProductRecallNotificationDistributorDetail				Contains the product recall distribution details.	
Association		SourceReference	0..*	This is the file name to provide more details regarding the distributor information impacted by the recalled traceable item.	brad_product_recall:PRN.74
Association		ProductRecallParty	0..1	This is a list of first external customer including Business Name, Contact Name, Contact Number and Address (as minimum).	brad_product_recall:PRN.73
Attribute	hasDistributorBeenNotified	NonBinaryLogicEnumeration	0..1	Specifies if the distributor has been contacted regarding the product recall or withdrawal notification.	brad_product_recall:PRN.72

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.

4.1.2   Product Recall Notification Handling Instructions

Class Diagram

GDD Report

The content of the ProductRecallNotificationHandlingInstructions class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallNotificationHandlingInstructions

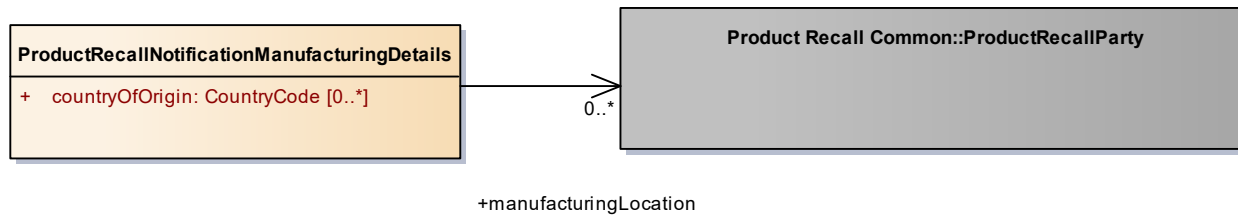| Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ProductRecallNotification HandlingInstructions				Contains the product recall handling instruction details.	
Association	inTransitSpeci alHandlingInst ructions	HandlingInstructio n	0..*	Provides specific handling Instruction for the recalled traceable item in transit.	brad_product_recall:PRN.131
Association	warehouseSpe cialHandlingIn structions	HandlingInstructio n	0..*	Provides specific handling Instruction in warehouse for the recalled traceable item.	brad_product_recall:PRN.130
Association	storeSpecialHa ndlingInstructi ons	HandlingInstructio n	0..*	Provides specific handling Instruction in store for the recalled traceable item.	brad_product_recall:PRN.129

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Association	specialHandlingInstructions	HandlingInstruction	0..*	Special Handling Instructions describes when the recalled traceable item needs to be managed in a particular manner. It covers both shipping, handling and hazardous information requirements.	brad_product_recall:PRN.128
Attribute	isSpecialHandlingInstructionsRequiredForRecalledTraceableItem	NonBinaryLogicEnumeration	0..1	Indicate if recalled traceable item requires special handling. Special handling includes instructions for hazardous material.	brad_product_recall:PRN.128

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.

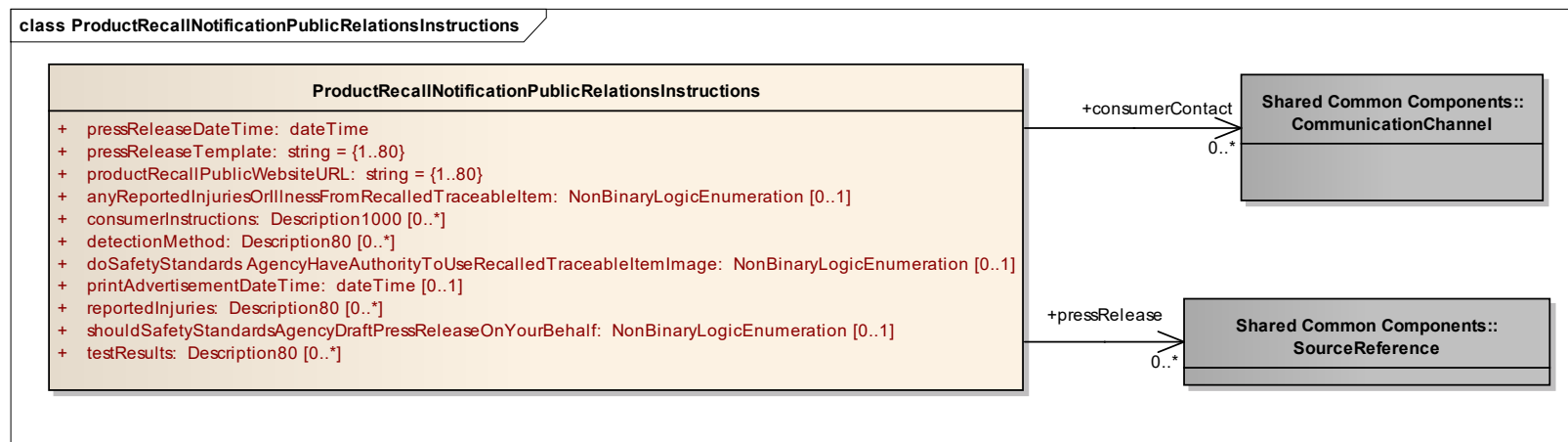### 4.1.3   Product Recall Notification Manufacturing Details

Class Diagram

GDD Report

The content of the ProductRecallManufacturingDetails class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallManufacturingDetails*

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ProductRecallNotification ManufacturingDetails				Contains the product recall manufacturing details.	
Association	manufacturing Location	ProductRecallParty	0..*	Provides the name and address information of the manufacturing locations involved in the product recall.	brad_product_recall:PRN.75
Attribute	countryOfOrigin	CountryCode	0..*	The country code (codes) in which the goods have been produced or manufactured, according to criteria established for the purposes of application of the value may or may not be presented on the trade item label.	brad_product_recall:PRN.54

4.1.4   Product Recall Notification Public Relations Instructions

Class Diagram

GDD Report

The content of the ProductRecallNotificationPublicRelationsInstructions class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallNotificationPublicRelationsInstructions

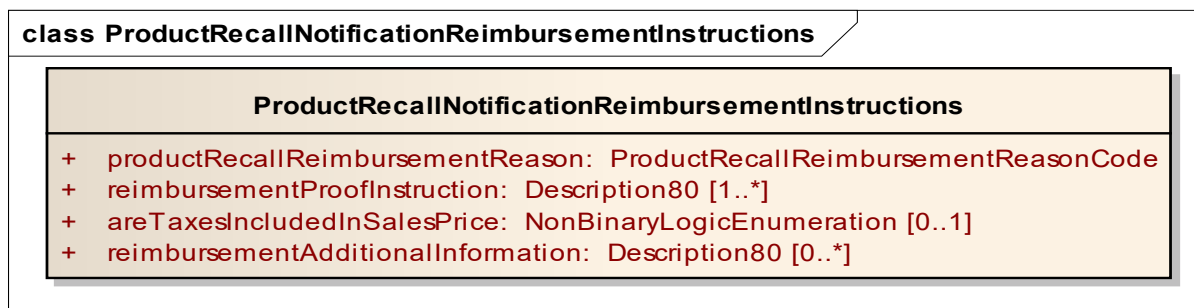| Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ProductRecallNotificationPublicRelationsInstructions				Contains the product recall public relations instruction details.	
Association	consumerContact	CommunicationChannel	0..*	The Product Recall Consumer Hotline telephone number provided by the Initiating Organisation responsible to handle consumers/customer questions as needed or requested.	brad_product_recall:PRN.86,87
Association	pressRelease	SourceReference	0..*	Provides the press release files information.	Brad_product_recall:PRN.115, 116,117,118,119,126
Attribute	pressReleaseDateTime	dateTime	1..1	The date time related to the media information release.	brad_product_recall:PRN.112
Attribute	pressReleaseTemplate	string	1..1	Provides the template for a press release.	brad_product_recall:PRN.113
Attribute	productRecallPublicWebsiteURL	string	1..1	Simple text string which refers to an internet resource for this recall notification. URLs may refer to documents, resources, people, etc.	brad_product_recall:PRN.110
Attribute	anyReportedInjuriesOrIllnessFromRecalledTraceableItem	NonBinaryLogicEnumeration	0..1	Has there been any reported case of injury / illness associated with any traceable item in this Recall.	brad_product_recall:PRN.120
Attribute	consumerInstructions	Description1000	0..*	Provides comprehensive instruction on physical handling for consumer regarding the recalled traceable item.	brad_product_recall:PRN.133
Attribute	detectionMethod	Description80	0..*	Details on how the problem with the recalled traceable item was detected.	brad_product_recall:PRN.122

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Attribute	doSafetyStandardsAgencyHaveAuthorityToUseRecalledTraceableItemImage	NonBinaryLogicEnumeration	0..1	An indicator which determines if the safety standards agency has authority to use the images provided in this Product Recall or Withdrawal Notification to be disseminated via the internet or other electronic means.	brad_product_recall:PRN.121
Attribute	printAdvertisementDateTime	dateTime	0..1	Provides the date and time the print media will appear.	brad_product_recall:PRN.114
Attribute	reportedInjuries	Description80	0..*	Provides the reported case of injury and or illness associated with the traceable item in this Recall.	brad_product_recall:PRN.124
Attribute	shouldSafetyStandardsAgencyDraftPressReleaseOnYourBehalf	NonBinaryLogicEnumeration	0..1	An indicator which determines if the safety standards agency should draft a press release on behalf of the Product Recall or Withdrawal Notification Issuing Organisation.	brad_product_recall:PRN.120
Attribute	testResults	Description80	0..*	Provides any testing on the traceable item in this Recall.	brad_product_recall:PRN.125

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.

4.1.5   Product Recall Notification Reimbursement Instructions

Class Diagram

```
class ProductRecallNotificationReimbursementInstructions

        ProductRecallNotificationReimbursementInstructions

    +   productRecallReimbursementReason:  ProductRecallReimbursementReasonCode
    +   reimbursementProofInstruction:  Description80 [1..*]
    +   areTaxesIncludedInSalesPrice:  NonBinaryLogicEnumeration [0..1]
    +   reimbursementAdditionalInformation:  Description80 [0..*]
```

GDD Report

The content of the ProductRecallNotificationReimbursementInstructions class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallNotificationReimbursementInstructions
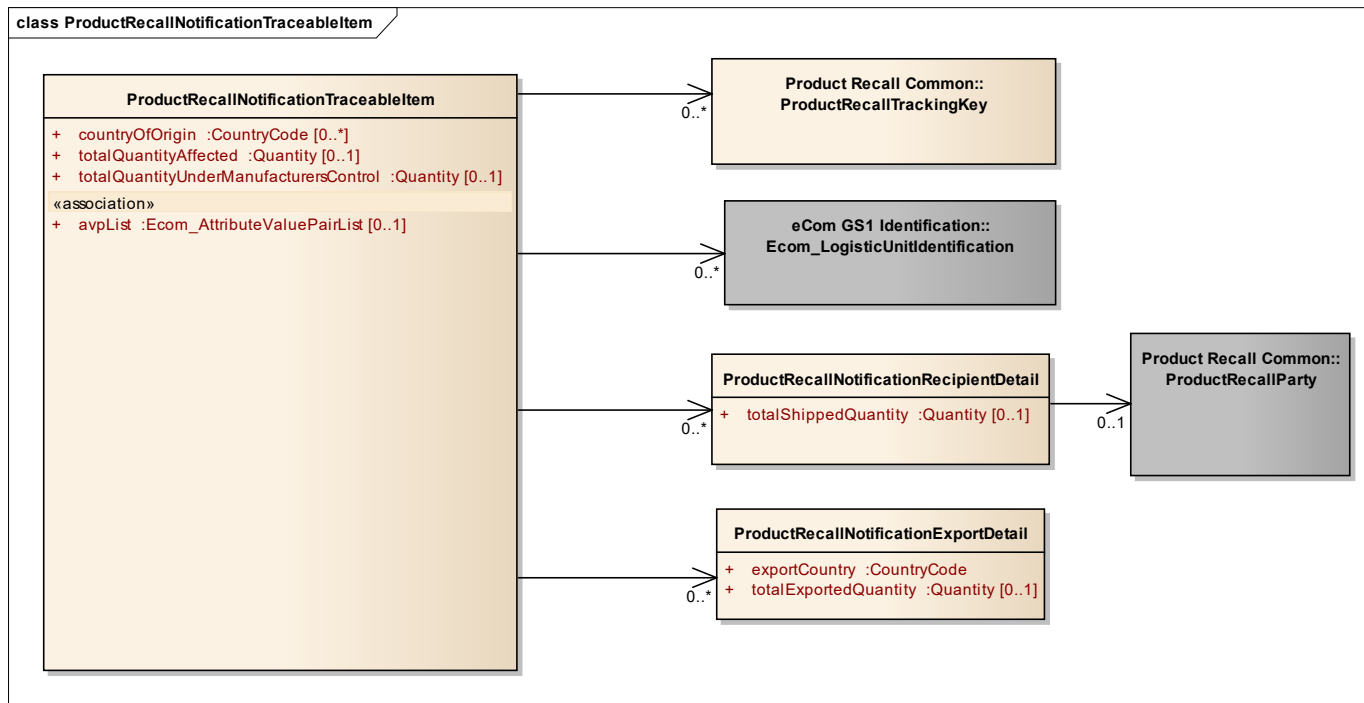
Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ProductRecallNotification ReimbursementInstructions				Contains the product recall reimbursement instruction details.	
Attribute	productRecallR eimbursement Reason	ProductRecallReim bursementReasonC ode	1..1	The return request to be used by the organisation requesting the reimbursement.	brad_product_recall:PRN.134
Attribute	reimbursemen tProofInstructi on	Description80	1..*	Product Recall issuer will dictate what proof is satisfactory to issue a reimbursement.	brad_product_recall:PRN.135
Attribute	areTaxesInclu dedInSalesPric e	NonBinaryLogicEnu meration	0..1	Have taxes been imposed on the sale price of the traceable item.	brad_product_recall:PRN.35
Attribute	reimbursemen tAdditionalInfo rmation	Description80	0..*	Add any additional information that would assist reimbursing organisation in the reimbursement process.	brad_product_recall:PRN.136

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.

4.1.6 Product Recall Notification Traceable Item

Class Diagram

GDD Report

The content of the ProductRecallNotificationTraceableItem class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallNotificationTraceableItem*

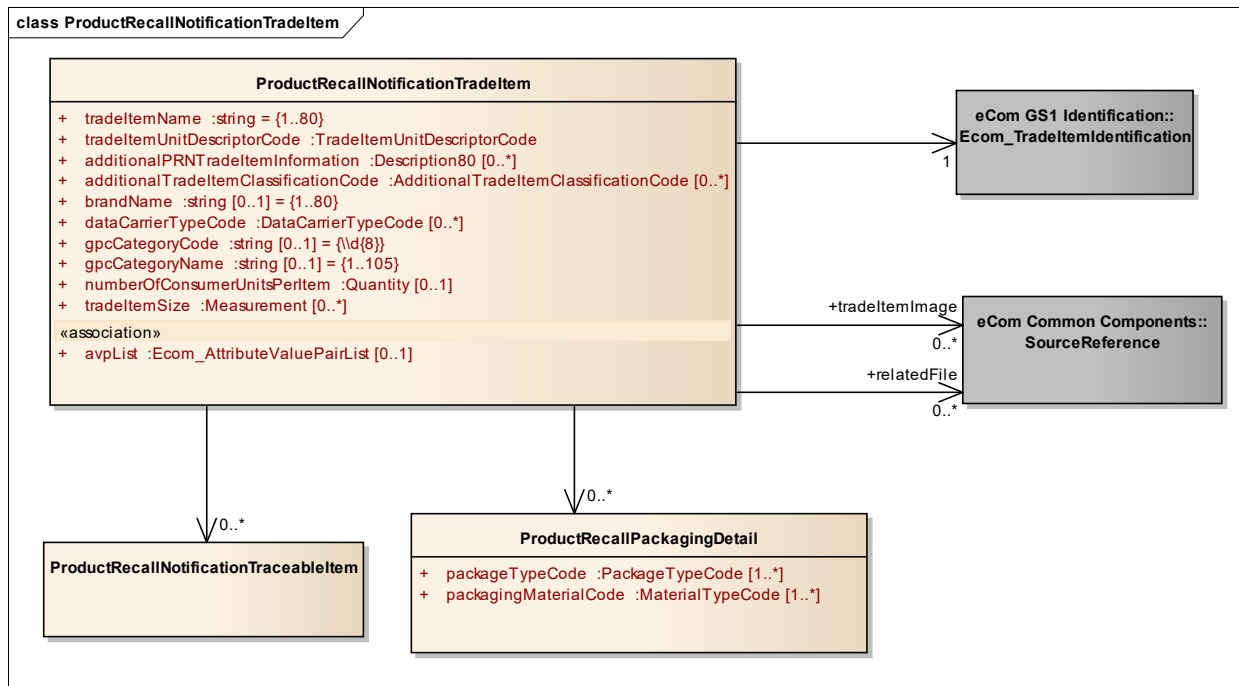| Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ProductRecallNotification TraceableItem				Contains the product recall traceable item details.	
Association		ProductRecallNotifi cationRecipientDet ail	0..*	Provides the product recall recipient details.	
Association		ProductRecallTracki ngKey	0..*	Provides the tracking information.	brad_product_recall:PRN.44
Association		Ecom_LogisticUnitI dentification	0..*	Provides the logistic Unit Identification.	brad_product_recall:PRN.desi gn phase WR 15-000314
Association		ProductRecallNotifi cationExportDetail	0..*	Provides the product recall export details.	
Attribute	countryOfOrigi n	CountryCode	0..*	The country code (codes) in which the goods have been produced or manufactured, according to criteria established for the purposes of application of the value may or may not be presented on the trade item label.	brad_product_recall:PRN.54
Attribute	totalQuantityA ffected	Quantity	0..1	The total number of quantity that are affected by the Product Recall or Withdrawal Notification.	brad_product_recall:PRN.56
Attribute	avpList	Ecom_AttributeVal uePairList	0..1	Temporary attributes introduced between minor versions.	WR 14-000110
Attribute	totalQuantityU nderManufactu rersControl	Quantity	0..1	The total quantity that are under control of the manufacturing organisation affected by the Product Recall or Withdrawal Notification.	brad_product_recall:PRN.57
ProductRecallNotification RecipientDetail				Contains the product recall notification recipient details.	
Association		ProductRecallParty	0..1	Provides the product recall party details.	

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Attribute	totalShippedQuantity	Quantity	0..1	The total quantity that have shipped from the manufacturer affected by the Product Recall or Withdrawal Notification.	brad_product_recall:PRN.58
ProductRecallNotification ExportDetail				Contains the product recall export details.	
Attribute	exportCountry	CountryCode	1..1	Indicates to which countries the traceable item was exported to.	brad_product_recall:PRN.77
Attribute	totalExportedQuantity	Quantity	0..1	Indicate the traceable item quantities exported to each country with the unit of measure.	brad_product_recall:PRN.78

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.

4.1.7 ProductRecallNotificationTradeItem

Class Diagram

The content of the ProductRecallNotificationTradeItem class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallNotificationTradeItem

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ProductRecallNotification TradeItem				Contains the product recall trade item details.	
Association		Ecom_TradeItemId entification	1..1	A globally unique number that identifies the traceable item that is being recalled.	brad_product_recall:PRN.40,4 1 WR 15-000314

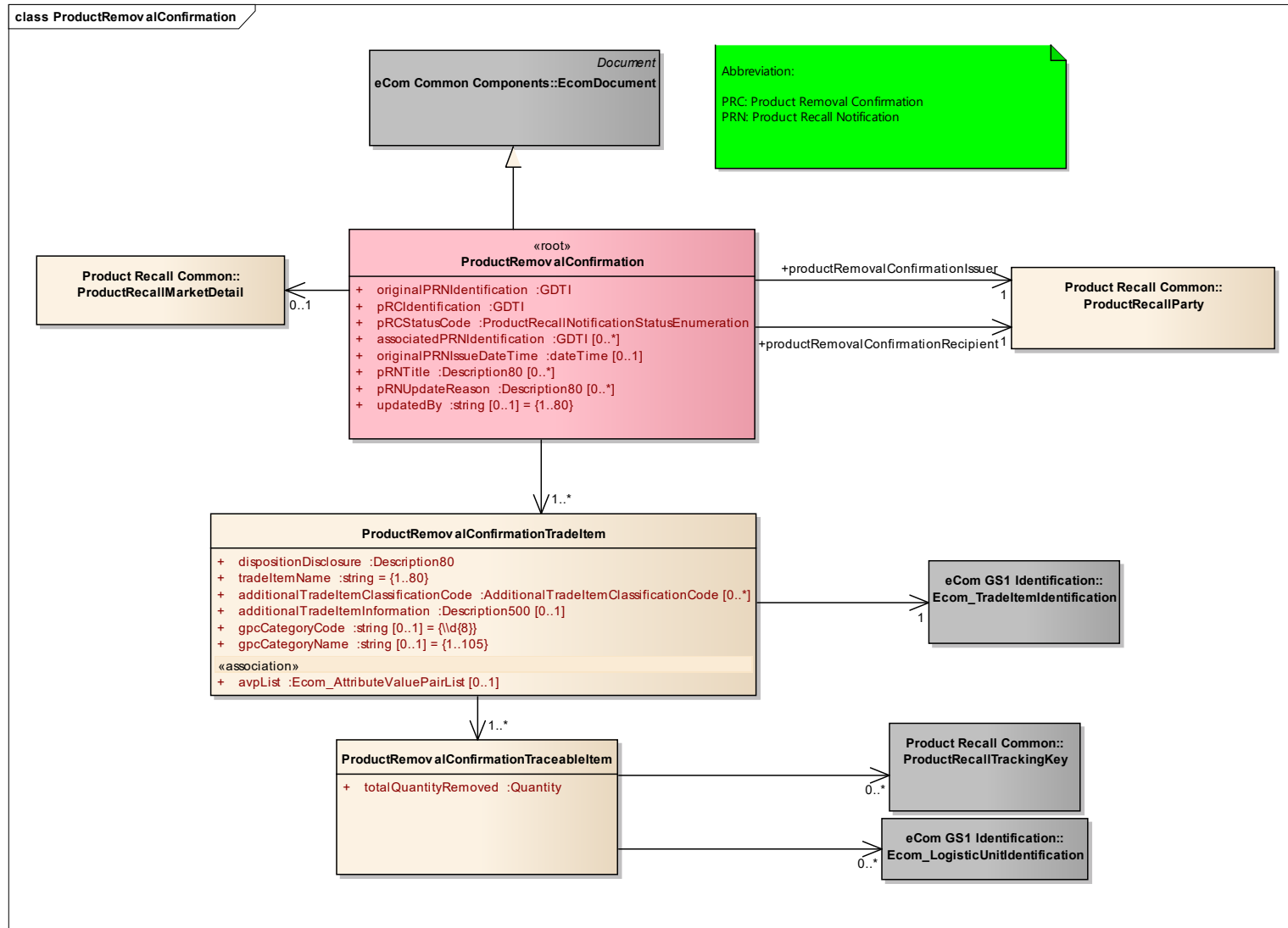| Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Association		ProductRecallPackagingDetail	0..*	Provides the product packaging details.	
Association		ProductRecallNotificationTraceableItem	0..*	Provides the product recall notification traceable item information.	
Association	tradeItemImage	SourceReference	0..*	Image/picture of the traceable item being recalled, which is embedded in the product recall or withdrawal notification.	brad:product_recall.31,32
Association	relatedFile	SourceReference	0..*	Provides the related files.	brad:product_recall.33,34
Attribute	tradeItemName	string	1..1	A distinct traceable item name that provides an accurate description of the recalled product. A recognized product name by the end user or consumer. This excludes Brand Name.	brad_product_recall:PRN.37
Attribute	tradeItemUnitDescriptorCode	TradeItemUnitDescriptorCode	1..1	Provides the unit descriptor.	added during design
Attribute	avpList	Ecom_AttributeValuePairList	0..1	Temporary attributes introduced between minor versions.	WR 14-000110
Attribute	additionalPRNTradeItemInformation	Description80	0..*	Any additional information regarding this traceable that may be of used by receiving organisations.	brad_product_recall:PRN.42
Attribute	additionalTradeItemClassificationCode	AdditionalTradeItemClassificationCode	0..*	The Product Classification that best describes the traceable item being recalled/withdrawn.	brad_product_recall:PRN.38
Attribute	brandName	string	0..1	The recognizable name used by a brand owner to uniquely identify a line of traceable item or services. This is recognizable by the consumer.	brad_product_recall:PRN.39
Attribute	dataCarrierTypeCode	DataCarrierTypeCode	0..*	The GS1 data carrier on the Recalled Traceable Item..	brad_product_recall:PRN.43
Attribute	gpcCategoryCode	string	0..1	A code that identifies a category in the GPC product classification.	
Attribute	gpcCategoryName	string	0..1	The name associated with the GPC product classification.	

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Attribute	numberOfConsumerUnitsPerItem	Quantity	0..1	The number of consumer units contained in each case.	brad_product_recall:PRN.55
Attribute	tradeItemSize	Measurement	0..*	The size and unit of measure identified on the recalled traceable item.	brad_product_recall:PRN.51
ProductRecallPackagingDetail				Contains the product recall packaging details.	
Attribute	packageTypeCode	PackageTypeCode	1..*	The code identifying the type of package used as a container of the traceable item.	brad_product_recall:PRN.52
Attribute	packagingMaterialCode	MaterialTypeCode	1..*	The code identifying the packaging material for the packaging type of the traceable item.	brad_product_recall:PRN.53

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   Product Removal Confirmation

Class Diagram

class ProductRemovalConfirmation

Document
eCom Common Components::EcomDocument

Abbreviation:

PRC: Product Removal Confirmation
PRN: Product Recall Notification

Product Recall Common::
ProductRecallMarketDetail

«root»
ProductRemovalConfirmation

+   originalPRNIdentification :GDTI
+   pRCIdentification :GDTI
+   pRCStatusCode :ProductRecallNotificationStatusEnumeration
+   associatedPRNIdentification :GDTI [0..*]
+   originalPRNIssueDateTime :dateTime [0..1]
+   pRNTitle :Description80 [0..*]
+   pRNUpdateReason :Description80 [0..*]
+   updatedBy :string [0..1] = {1..80}

+productRemovalConfirmationIssuer

+productRemovalConfirmationRecipient 1

Product Recall Common::
ProductRecallParty

ProductRemovalConfirmationTradeItem

+   dispositionDisclosure :Description80
+   tradeItemName :string = {1..80}
+   additionalTradeItemClassificationCode :AdditionalTradeItemClassificationCode [0..*]
+   additionalTradeItemInformation :Description500 [0..1]
+   gpcCategoryCode :string [0..1] = {\d{8}}
+   gpcCategoryName :string [0..1] = {1..105}

«association»
+   avpList :Ecom_AttributeValuePairList [0..1]

eCom GS1 Identification::
Ecom_TradeItemIdentification

ProductRemovalConfirmationTraceableItem

+   totalQuantityRemoved :Quantity

Product Recall Common::
ProductRecallTrackingKey

eCom GS1 Identification::
Ecom_LogisticUnitIdentification

GDD Report

The content of the ProductRemovalConfirmation class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRemovalConfirmation

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ProductRemovalConfirmation				Contains the product removal confirmation details.	
Generalization		EcomDocument		Basic information about the content of the message including version number, creation date and time.	WR 14-000110
Association		ProductRecallMarketDetail	0..1	The target market to which the recalled traceable item is targeted.	brad_product_recall:PRC.12
Association	productRemovalConfirmationIssuer	ProductRecallParty	1..1	The party identification of the product removal confirmation initiating organisation.	brad_product_recall:PRC.2,3
Association	productRemovalConfirmationRecipient	ProductRecallParty	1..1	The globally unique identification of the product removal confirmation recipient organisation.	brad_product_recall:PRC.7
Association		ProductRemovalConfirmationTradeItem	1..*	Provides the product removal confirmation trade item details.	
Attribute	originalPRNIdentification	GDTI	1..1	This is the identification of the first product recall notification created. Each product recall or withdrawal notification created is assigned a globally unique GDTI for accurate identification of each notification record, to better track updates and for global interoperability. A GDTI (Global Document Type Identifier) is a GS1 Key that provides unique document type identification.	brad_product_recall:PRC.9
Attribute	pRCIdentification	GDTI	1..1	Each product removal confirmation created is assigned a globally unique GDTI for accurate identification of each notification record, to better track updates and for global interoperability. A GDTI (Global Document Type Identifier) is a GS1 Key that provides unique document type identification.;	brad_product_recall:PRC.8

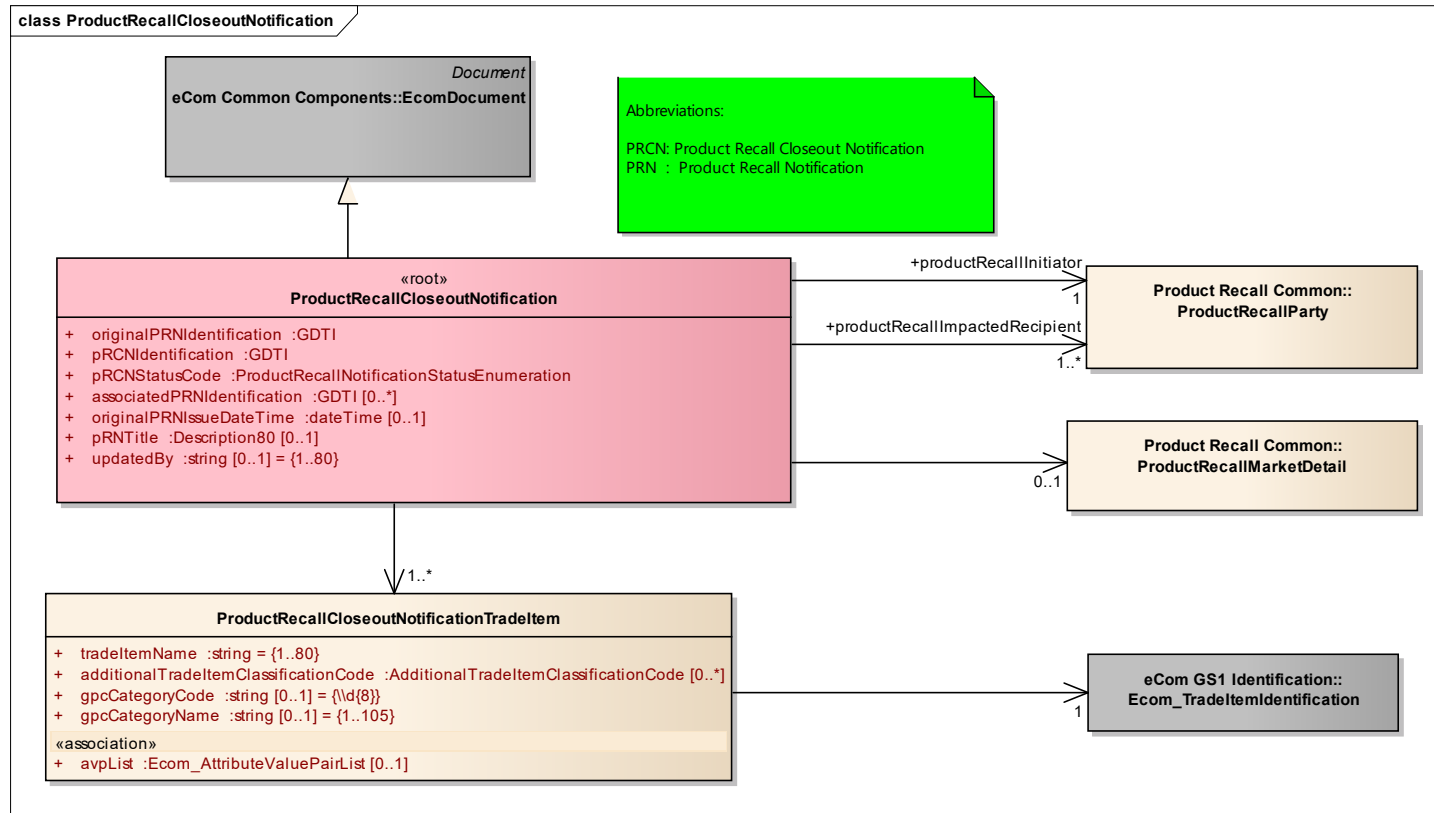| Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Attribute	pRCStatusCode	ProductRecallNotificationStatusEnumeration	1..1	This is the current status of the product removal confirmation.	brad_product_recall:PRC.21
Attribute	associatedPRNIdentification	GDTI	0..*	References specific Product Recall or Withdrawal Identification(s) used before in an other earlier Product Recall or Withdrawal Notification.	brad_product_recall:PRC.11
Attribute	originalPRNIssueDateTime	dateTime	0..1	This is the date and time in which the Product Recall / Withdrawal Notification was issued to selected recipients.	brad_product_recall:PRC.13
Attribute	pRNTitle	Description80	0..*	The title or name of the issued product recall or withdrawal notification used to briefly describe the product recall.	brad_product_recall:PRC.10
Attribute	pRNUpdateReason	Description80	0..*	Provide the reason why this notification has been extended, updated, or expanded. Typical reasons could include additional batches have been found to be defective, or additional distribution areas have been identified.	brad_product_recall:PRC.20
Attribute	updatedBy	string	0..1	The individual who updated the product removal confirmation.	brad_product_recall:PRC.4
ProductRemovalConfirmationTradeItem				Contains the product removal trade item details.	
Association		TradeItemIdentification	1..1	Provides the trade item identification.	brad_product_recall:PRC.15, 16
Association		ProductRemovalConfirmationTraceableItem	1..*	Provides the product removal confirmation traceable item details.	
Attribute	dispositionDisclosure	Description80	1..1	A text field to provide how the recipient has handled the removal of the traceable item from the supply chain.	brad_product_recall:PRC.22
Attribute	tradeItemName	string	1..1	A distinct traceable item name that provides an accurate description of the recalled product. A recognized product name by the end user or consumer.	brad_product_recall:PRN.17
Attribute	avpList	Ecom_AttributeValuePairList	0..1	Temporary attributes introduced between minor versions.	WR 14-000110

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Attribute	additionalTradeItemClassificationCode	AdditionalTradeItemClassificationCode	0..*	The trade item classification code that best describes the traceable item being recalled/withdrawn.	brad_product_recall:PRN.18
Attribute	additionalTradeItemInformation	Description500	0..1	Provide additional information pertaining to the recalled traceable item.	brad_product_recall:PRC.19
Attribute	gpcCategoryCode	string	0..1	A code that identifies a category in the GPC product classification	
Attribute	gpcCategoryName	string	0..1	The name associated with the GPC product classification.	
ProductRemovalConfirmationTraceableItem				Contains the product removal traceable item details.	
Association		LogisticUnitIdentification	0..*	Provides the logistic unit identification.	
Association		ProductRecallTrackingKey	0..*	Provides the traceable item tracking information.	brad_product_recall:PRN.24, 25,26
Attribute	totalQuantityRemoved	Quantity	1..1	The total quantity of traceable item removed.	brad_product_recall:PRC.23

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.

4.3   Product Recall Closeout Notification

Class Diagram

GDD Report

The content of the ProductRecallCloseoutNotification class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallCloseoutNotification

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ProductRecallCloseoutNotification				Contains the product recall closeout notification details.	

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Association		ProductRecallMarketDetail	0..1	The target market to which the recalled traceable item is targeted.	brad_product_recall:PRCN.13
Association	productRecallInitiator	ProductRecallParty	1..1	Provides the product recall closeout initiator identification and address.	brad_product_recall:PRCN.1, 2,3,5,6
Generalization		EcomDocument		Basic information about the content of the message including version number, creation date and time.	WR 14-000110
Association		ProductRecallCloseoutNotificationTradeItem	1..*	Provides the product recall closeout notification trade item details.	
Association	productRecallImpactedRecipient	ProductRecallParty	1..*	The globally unique identification of the product recall or withdrawal closeout recipient organisation.	brad_product_recall:PRCN.7
Attribute	originalPRNIdentification	GDTI	1..1	This is the identification of the first product recall notification created. Each product recall or withdrawal notification created is assigned a globally unique GDTI for accurate identification of each notification record, to better track updates and for global interoperability. A GDTI (Global Document Type Identifier) is a GS1 Key that provides unique document type identification.	brad_product_recall:PRCN.10
Attribute	pRCNIdentification	GDTI	1..1	Each product recall or withdrawal closeout created is assigned a globally unique GDTI for accurate identification of each notification record, to better track updates and for global interoperability. A GDTI (Global Document Type Identifier) is a GS1 Key that provides unique document type identification.	brad_product_recall:PRCN.8
Attribute	pRCNStatusCode	ProductRecallNotificationStatusEnumeration	1..1	This is the current status of the product recall or withdrawal closeout.	brad_product_recall:PRCN.9
Attribute	associatedPRNIdentification	GDTI	0..*	References specific Product Recall or Withdrawal Identification(s) used before in an other earlier Product Recall or Withdrawal Notification.	brad_product_recall:PRCN.12

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Attribute	originalPRNIssueDateTime	dateTime	0..1	This is the date and time in which the Product Recall / Withdrawal Notification was issued to selected recipients.	brad_product_recall:PRCN.14
Attribute	pRNTitle	Description80	0..1	The title or name of the issued product recall or withdrawal notification used to briefly describe the product recall.	brad_product_recall:PRN.11
Attribute	updatedBy	string	0..1	The individual who updated the product recall or withdrawal closeout.	brad_product_recall:PRCN.4
ProductRecallCloseoutNotificationTradeItem				Contains the product recall closeout trade item details.	
Association		Ecom_TradeItemIdentification	1..1	Provides the trade item identification.	brad_product_recall:PRCN.16,17 WR 15-000314
Attribute	tradeItemName	string	1..1	A distinct traceable item name that provides an accurate description of the recalled product. A recognized product name by the end user or consumer	brad_product_recall:PRCN.18
Attribute	additionalTradeItemClassificationCode	AdditionalTradeItemClassificationCode	0..*	The additional trade item classification code.	brad_product_recall:PRCN.19
Attribute	avpList	Ecom_AttributeValuePairList	0..1	Temporary attributes introduced between minor versions.	WR 14-000110
Attribute	gpcCategoryCode	string	0..1	A code that identifies a category in the GPC product classification.	
Attribute	gpcCategoryName	string	0..1	The name associated with the GPC product classification.	

✅ **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.

4.4 Product Recall Common

4.4.1 Product Recall Common – Product Recall Distribution Area

Class Diagram
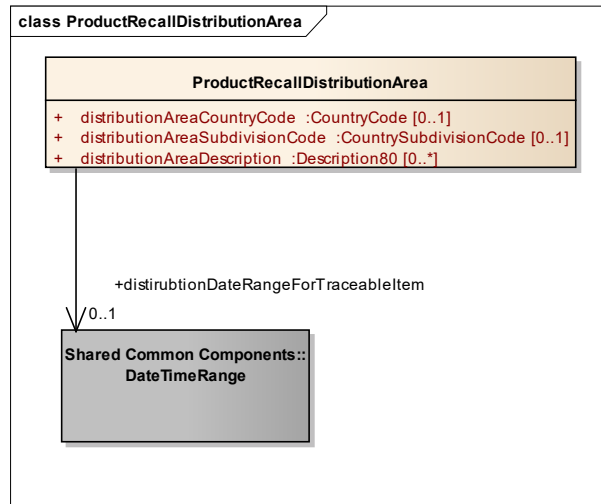
GDD Report

The content of the ProductRecallDistributionArea class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallDistributionArea

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ProductRecallDistributionArea				Contains the product recall distribution area details.	
Association	distributionDateRangeForTraceableItem	DateTimeRange	0..1	This date reflects the start and end of distribution to the market place (supply chain) specific to the recalled traceable item. It includes in-transit traceable item. The date distribution ends is the point at which the last traceable item leaves the manufacturer's control.	brad_product_recall:PRN.23,24

Attribute	distributionAreaCountryCode	CountryCode	0..1	Indicates geographic range of distribution.	brad_product_recall:PRN.25
Attribute	distributionAreaSubdivisionCode	CountrySubdivisionCode	0..1	Indicates geographic range of distribution.	brad_product_recall:PRN.25
Attribute	distributionAreaDescription	Description80	0..*	The geographic regions the traceable item may be distributed in.	brad_product_recall:PRN.26,27

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.

4.4.2 Product Recall Common – Product Recall Market Detail

Class Diagram
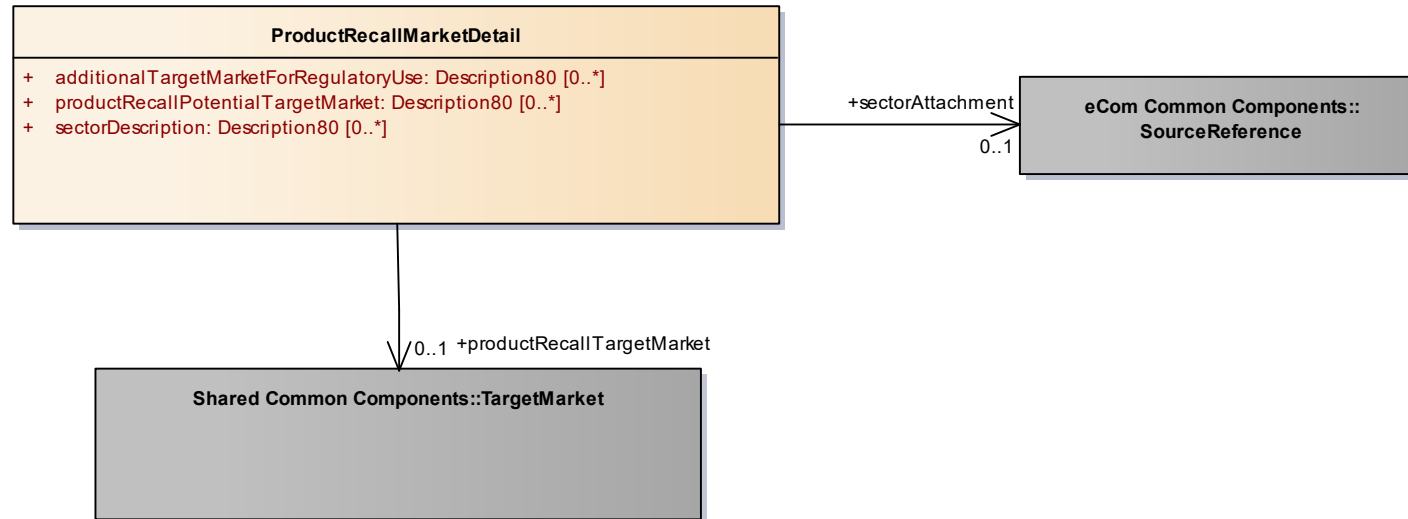
GDD Report

The content of the ProductRecallMarketDetails class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallMarketDetails

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ProductRecallMarketDetail				Contains the product recall market details.	
Association	productRecallTargetMarket	TargetMarket	0..1	The target market to which the recalled traceable item is targeted.	brad_product_recall:PRN.9
Association	sectorAttachment	SourceReference	0..1	Any file that needs to accompany a specific Target Name.	brad:product_recall.PRN.13
Attribute	additionalTargetMarketForRegulatoryUse	Description80	0..*	Provide additional Potential Markets served by these distributors.	brad:product_recall.PRN.11

Attribute	productRecallPotentialTargetMarket	Description80	0..*	Provide an indication of the potential markets served by these traceability partners.	brad_product_recall:PRN.10
Attribute	sectorDescription	Description80	0..*	The industry sector to which the recalled traceable item is marketed.	brad_product_recall:PRN.8

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.

4.4.3 Product Recall Common - Product Recall Party

Class Diagram
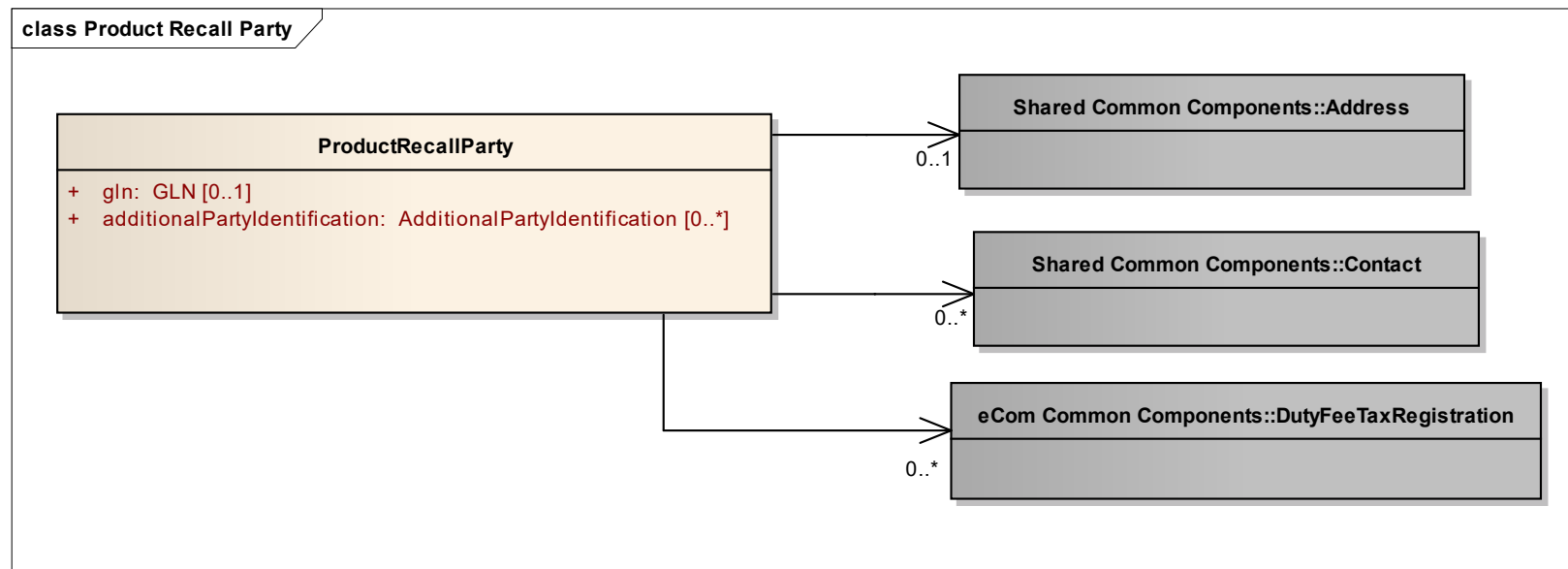
GDD Report

The content of the ProductRecallParty class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallParty

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements

ProductRecallParty				Contains the product recall party details.	
Association		Contact	0..*	Information about the contact for the party involved in the business transaction.	
Association		Address	0..1	Address of the party involved in the business transaction.	
Association		DutyFeeTaxRegistr ation	0..*	Provides the duty fee tax registration information.	Based on Community Review
Attribute	gln	GLN	0..1	The Global Location Number (GLN) is a structured Identification of a physical location, legal or functional entity within an enterprise. The GLN is the primary party identifier. Each party identified in the trading relationship must have a primary party Identification..	brad_product_recall:PRN.60
Attribute	additionalParty Identification	AdditionalPartyIden tification	0..*	Identification of a party by use of a code other than the Global Location Number.	brad_product_recall:PRN.61

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.

4.4.4   Product Recall Common – Product Recall Tracking Key

Class Diagram

class ProductRecallTrackingKey

ProductRecallTrackingKey

+ productTrackingKeyCode: ProductRecallTrackingTypeCode
+ productTrackingKeyValue: string = {1..80}
+ isProductTrackingKeyInDataCarrier: NonBinaryLogicEnumeration [0..1]
+ productTrackingKeyDescription: Description80 [0..*]
+ productTrackingKeyLocation: string [0..1] = {1..80}

0..1
+trackingKeyImage

Shared Common Components:: SourceReference
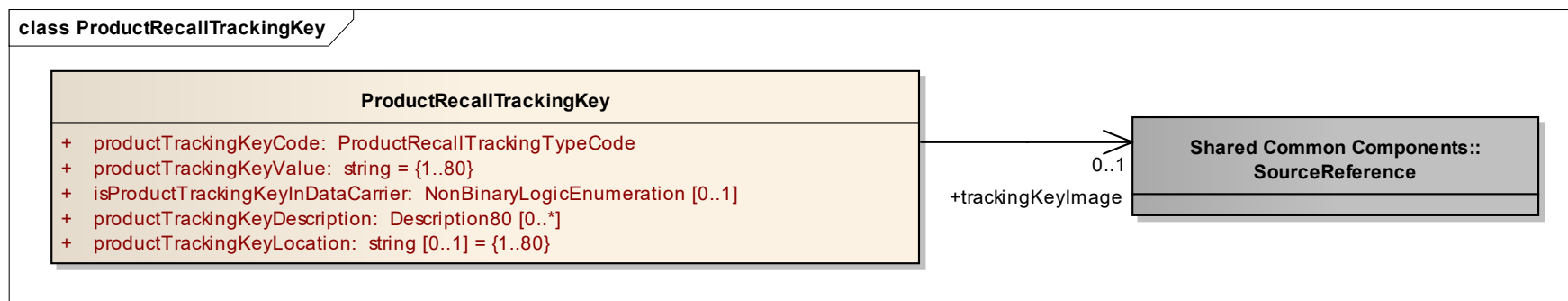
GDD Report

The content of the ProductRecallTrackingKey class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_3/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ProductRecallTrackingKey
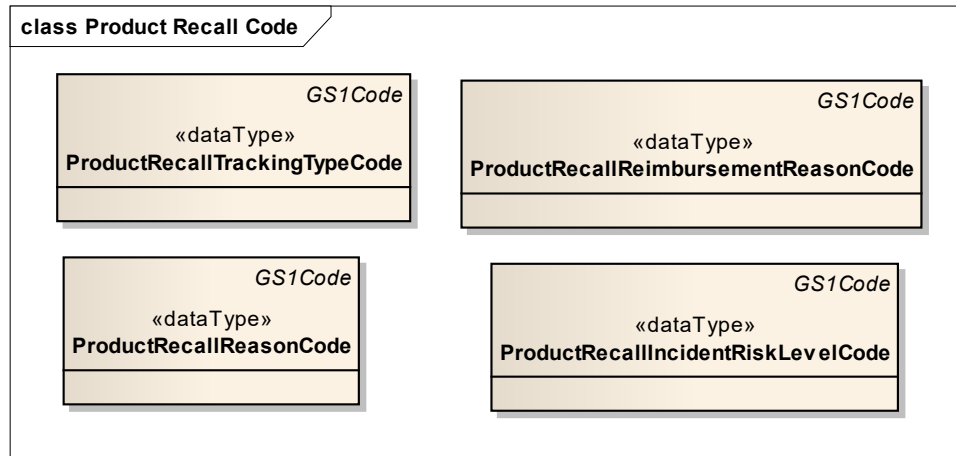
Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ProductRecallTrackingKey				Contains the product recall tracking key details.	
Association	trackingKeyImage	SourceReference	0..1	This is an image of the tracking code as it appears on the recalled traceable item and textual description.	brad_product_recall:PRN.49,50
Attribute	productTrackingKeyCode	ProductRecallTrackingTypeCode	1..1	A Tracking Code is a code used to identify affected traceable item. This is the type of code found on the package.	brad_product_recall:PRN.45
Attribute	productTrackingKeyValue	string	1..1	This is the value associated to the Tracking Code.	brad_product_recall:PRN.46
Attribute	isProductTrackingKeyInDataCarrier	NonBinaryLogicEnumeration	0..1	Provides Indication of whether the product tracking key is contained in the AIDC data carrier (bar code or RFID tag) or not.	Community Review Change
Attribute	productTrackingKeyDescription	Description80	0..*	Explanation of how to interpret the consumer Unit manufacturing code.	brad_product_recall:PRN.47
Attribute	productTrackingKeyLocation	string	0..1	The location on the packaging where the identified tracking code(s) can be found.	brad_product_recall:PRN.48

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.

4.4.5 Product Recall Common – Data Types

Class Diagram

4.5 Enumerations (message specific)

Not applicable

4.6 Code Lists

Class	Codelist	GDD Link
ProductRecallNotification, ProductRecallCloseoutNotification, ProductRemovalConfirmation	ProductRecallNotificationStatusEnumeration	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ProductRecallNotificationStatusEnumeration
ProductRecallNotification	ProductRecallNotificationVersionStatusEnumeration	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ProductRecallNotificationVersionStatusEnumeration
ProductRecallNotification, ProductRecallNotificationDistributionDetails, ProductRecallNotificationHandlingInstructions, ProductRecallNotificationPublicRelationsInstructions, ProductRecallTrackingKey, ProductRecallNotificationReimbursementInstructions	NonBinaryLogicEnumeration	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:NonBinaryLogicEnumeration
ProductRecallDistributionArea, ProductRecallNotificationExportDetail, ProductRecallNotificationManufacturingDetails, ProductRecallNotificationTraceableItem	CountryCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:CountryCode
ProductRecallDistributionArea	CountrySubdivisionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:CountrySubdivisionCode
ProductRecallTrackingKey	ProductRecallTrackingTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ProductRecallTrackingTypeCode
ProductRecallCloseoutNotificationTradeItem, ProductRecallNotificationTradeItem	AdditionalTradeItemClassificationCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AdditionalTradeItemClassificationCode
ProductRecallNotification	ProductRecallIncidentRiskLevelCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ProductRecallIncidentRiskLevelCode
ProductRecallNotificationReimbursementInstructions	ProductRecallReimbursementReasonCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ProductRecallReimbursementReasonCode
ProductRecallNotificationTradeItem	DataCarrierTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:DataCarrierTypeCode
ProductRecallNotificationTradeItem	TradeItemUnitDescriptorCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TradeItemUnitDescriptorCode
ProductRecallPackagingDetail	MaterialTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:MaterialTypeCode
ProductRecallPackagingDetail	PackageTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PackageTypeCode
ProductRecallReason	ProductRecallReasonCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ProductRecallReasonCode

Note: Refer to the Global Data Dictionary (GDD) for the code values.

5 Business Message Examples

5.1 Example 1

This is an example of the Product Recall Notification message.

Note: Data is for sample purpose only. Not all elements have been used in the sample data.

Note: Use column is for reference purpose ONLY: Helps to identify what is mandatory (M) / optional (O).

Attribute	Value	Use
ProductRecallNotification		
creationDateTime	2011-08-20T16:00:00	M
documentStatusCode	ORIGINAL	M
documentActionCode	ADD	O
documentStructureVersion	3.0	O
pRNIdentification (GDTI)	0857674002331CP855	M
originalPRNIdentification (GDTI)	0857674002331	M
pRNStatusCode	ISSUED	M
pRNTitle (English)	Pink Product Recall	M
pRNVersionStatusCode	INITIAL	M
incidentRiskLevelCode	CLASS_2	O
isPRNIssuingOrganisationThePrimaryRecallOrganisation	TRUE	O
ProductRecallParty(+productRecallInitiator)		M
gln	0857674002003	O
Contact		O
personName	Casey Crow	O
jobTitle	Director Process Control	O
contactTypeCode	PRODUCT_RECALL_CONTACT	O
Communication Channel (1X)		O
communicationChannelCode	TELEPHONE	M
communicationValue	333-123-4444	M
Communication Channel (2X)		O
communicationChannelCode	EMAIL	M
communicationValue	*sgarcia@org1.org*	M
Communication Channel (+afterHourCommunicationChannel)		O
communicationChannelCode	TELEPHONE	M
communicationValue	333-123-4445	M
ProductRecallParty (+productRecallImpactedRecipient)		M
additionalPartyIdentification	BUYER_ASSIGNED_IDENTIFIER_FOR_A_PARTY	O
additionalPartyIdentificationValue	7777777	O
Address		O
city	Town USA	O
streetAddressOne	999 Main Street	O
state	LA	O
postalCode	56324	O
Contact		O
personName	Athena Gilbert	O
jobTitle	Vice President Operations	O

Communication Channel (1X)		O
communicationChannelCode	TELEPHONE	M
communicationValue	777-123-4444	M
ProductRecallReason (1X)		M
productRecallReasonCode	ALLERGY_HAZARD_PEANUTS	M
explanationForRecallReason	Traces of peanuts were discovered in the product.	O
ProductRecallReason (2X)		O
productRecallReasonCode	ALLERGY_HAZARD_GLUTEN	M
explanationForRecallReason	Traces of peanuts were discovered in the product.	O
ProductRecallMarketdetail		O
productRecallPotentialTargetMarket (1X)	South East United States	O
productRecallPotentialTargetMarket (2X)	LA, GA, FL, SC	O
additionalTargetMarketForRegulatoryUse	School	O
sectorDescription	Consumer Packaged Goods	O
ProductRecallNotificationDistributionDetails		O
isTraceableItemExported	FALSE	O
isTraceableItemSoldViaDistributorship	FALSE	O
ProductRecallDistributionArea		O
distributionAreaCountryCode	USA	O
distributionAreaSubdivisionCode	LA	O
DateTimeRange (+distributionDateRangeForTraceableItem)		O
beginDate	2011-07-04	O
endDate	2011-07-23	O
ProductRecallNotificationTradeItem		M
tradeItemName	Pink Product	M
tradeItemunitDescriptorCode	BASE_UNIT_OR_EACH	M
dataCarrierTypeCode	GS1_DATA_MATRIX	O
brandName	**Brand ZZ**	**O**
tradeItemSize	**535 (Grams)**	**O**
TradeItemIdentification		M
gtin	00857674002010	M
SourceReference (+tradeItemImage)		O
referenceURI	*www.productinfo.com*	O
referenceIdentifier	Provides the product details	O
ProductRecallPackagingDetail		O
packageTypeCode	BO	M
packagingMaterialCode (1X)	COLOURED_GLASS	M
packagingMaterialCode (2X)	BIO_PLASTIC	O

ProductRecallNotificationTraceableItem		O
totalQuantityAffected	3050	O
totalQuantityUnderManufacturersControl	2000	O
ProductRecallTrackingKey (1X)		O
productTrackingKeyCode	SELL_BY_DATE	M
productTrackingKeyValue	2011-12-25	M
productTrackingKeyLocation	Bottom of bottle	O
SourceReference(+trackingKeyImage)		O
referenceURI	www.business.org	O
isProductTrackingKeyInDataCarrier	TRUE	O
ProductRecallTrackingKey (2X)		O
productTrackingKeyCode	BATCH_LOT_CODE	M
productTrackingKeyValue	72A	M
productTrackingKeyLocation	On the label	O
ProductRecallNotificationRecipientDetail		O
totalShippedQuantity	53	O
ProductRecallParty		O
additionalPartyIdentification	BUYER_ASSIGNED_IDENTIFIER_FOR_A_PARTY	O
additionalPartyIdentificationValue	7777777	O
ProductRecallSafetyStandardAgency		O
isItRequiredToNotifyYourRecallJurisdictionSafetyStandardsAgency	FALSE	M
isProductRecallVoluntary	TRUE	M
isTraceableItemAReportableFood	FALSE	O
ProductRecallNotificationReimbursementInstructions		O
productRecallReimbursementReason	LP_LABEL_PROBLEM	M
reimbursementProofInstruction	Issues with label quality.	M
ProductRecallnotificationHandlingInstructions		O
HandlingInstruction (+specialHandlingInstructions)		O
handlingInstructionCode	SLT	O
temperatureRange (+storageTemperature)		O
maximumTemperature	66 Fahrenheit	O
minimumTemperature	33 Fahrenheit	O
HandlingInstruction (+inTransitSpecialHandlingInstructions)		O
handlingInstructionCode	TRD	O
handlingInstructionText	Hold for cross dock delivery at point of distribution.	O

ProductRecallNotificationPublicRelationsInstructions		O
pressReleaseDateTime	2011-08-31T16:00:00	M
pressReleaseTemplate	Template 33	M
productRecallPublicWebsiteURL	*www.publicsite.com*	M

5.2 Example 2

This is an example of the Product Removal Confirmation message.

✅ **Note:** Data is for sample purpose only. Not all elements have been used in the sample data.

Message example 2

Attribute	Value	Use
ProductRemovalConfirmation		
creationDateTime	2011-08-20T16:00:00	M
documentStatusCode	ORIGINAL	M
documentActionCode	ADD	O
documentStructureVersion	3.0	O
originalPRNIdentification (GDTI)	0857674002331	M
pRCIdentification (GDTI)	0766907890129	M
pRCStatusCode	ISSUED	M
pRNTitle (English)	Pink Product Recall	O
ProductRecallParty (+productRemovalConfirmationIssuer)		M
gln	0766907000115	O
Contact		O
personName	Matthew Lee	O
jobTitle	VP Product Safety	O
contactTypeCode	PRODUCT_RECALL_CONTACT	O
Communication Channel (1X)		O
communicationChannelCode	TELEPHONE	M
communicationValue	777-123-4444	M
Communication Channel (2X)		O
communicationChannelCode	EMAIL	M
communicationValue	matthewlee@organisation.org	M
Communication Channel (+afterHourCommunicationChannel)		O
communicationChannelCode	TELEPHONE	M
communicationValue	777-123-4445	M
ProductRecallParty (+productRemovalConfirmationRecipient)		O
gln	0857674002003	O
Contact		O

Attribute	Value	Use
personName	Casey Crow	O
jobTitle	Director Process Control	O
Communication Channel (1X)		O
communicationChannelCode	TELEPHONE	M
communicationValue	333-123-4444	M
ProductRecallMarketdetail		O
productRecallPotentialTargetMarket (1X)	South East United States	O
productRecallPotentialTargetMarket (2X)	LA, GA, FL, SC	O
additionalTargetMarketForRegulatoryUse	School	O
sectorDescription	Consumer Packaged Goods	O
ProductRemovalConfirmationTradeItem		M
dispositionDisclosure	Destroy in field.	M
tradeItemName	Pink Product	M
TradeItemIdentification		M
gtin	00857674002010	M
ProductRemovalConfimrationTraceableItem		M
totalQuantityRemoved	33	M
ProductRecallTrackingKey		O
productTrackingKeyCode	SELL_BY_DATE	M
productTrackingKeyValue	2011-12-25	M
productTrackingKeyLocation	Bottom of bottle	O
SourceReference (+trackingKeyImage)		O
referenceURI	www.business.org	O

5.3 Example 3

This is an example of the Product Recall Closeout Notification message.

Note: Data is for sample purpose only. Not all elements have been used in the sample data.

Message example 3

Attribute	Value	Use
ProductRecallCloseoutNotification		
creationDateTime	2011-09-20T16:00:00	M
documentStatusCode	ORIGINAL	M
documentActionCode	ADD	O
documentStructureVersion	3.0	O
originalPRNIdentification (GDTI)	0857674002331	M
pRCNIdentification (GDTI)	0857674002447	M
pRCNStatusCode	CLOSED	M
originalPRNIssueDateTime	2011-08-20T16:00:00	O

Attribute	Value	Use
pRNTitle (English)	Pink Product Recall	O
ProductRecallParty(+productRecallInitiator)		M
gln	0857674002003	O
Contact		O
personName	Casey Crow	O
jobTitle	Director Process Control	O
contactTypeCode	PRODUCT_RECALL_CONTACT	O
Communication Channel (1X)		O
communicationChannelCode	TELEPHONE	M
communicationValue	333-123-4444	M
Communication Channel (2X)		O
communicationChannelCode	EMAIL	M
communicationValue	*sgarcia@org1.org*	M
Communication Channel (+afterHourCommunicationChannel)		O
communicationChannelCode	TELEPHONE	M
communicationValue	333-123-4445	M
ProductRecallParty (+productRecallImpactedRecipient)		M
additionalPartyIdentification	BUYER_ASSIGNED_IDENTIFIER_FOR_A_PARTY	O
additionalPartyIdentificationValue	7777777	O
Address		O
city	Town USA	O
streetAddressOne	999 Main Street	O
state	LA	O
postalCode	56324	O
Contact		O
personName	Athena Gilbert	O
jobTitle	Vice President Operations	O
Communication Channel (1X)		O
communicationChannelCode	TELEPHONE	M
communicationValue	777-123-4444	M
ProductRecallMarketdetail		O
productRecallPotentialTargetMarket (1X)	South East United States	O
productRecallPotentialTargetMarket (2X)	LA, GA, FL, SC	O
additionalTargetMarketForRegulatoryUse	School	O
sectorDescription	Consumer Packaged Goods	O
ProductRecallCloseoutNotificationTradeItem		M
tradeItemName	Pink Product	M
TradeItemIdentification		M
gtin	00857674002010	M

6 Implementation Considerations

6.1 User Guide

The Functional User Guide contains more information about the structure and content of the Product Recall message: *http://www.gs1.org/docs/ecom/xml/3/3.4/eCom-Trade_messages.html#ProductRecall*

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
First release	Not Applicable

7.2 BMS Release 3.1

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.
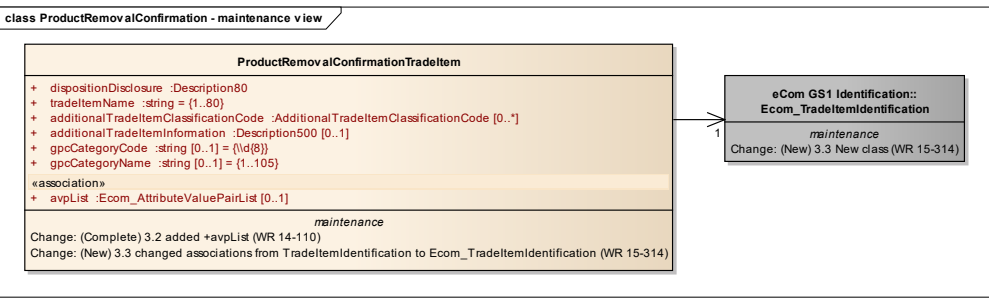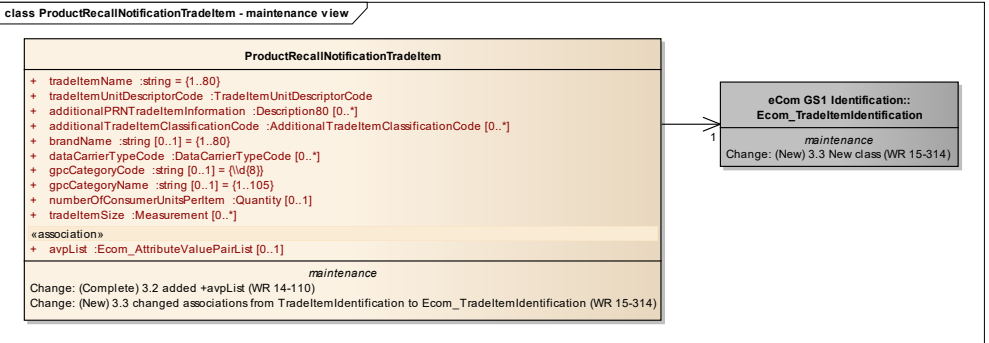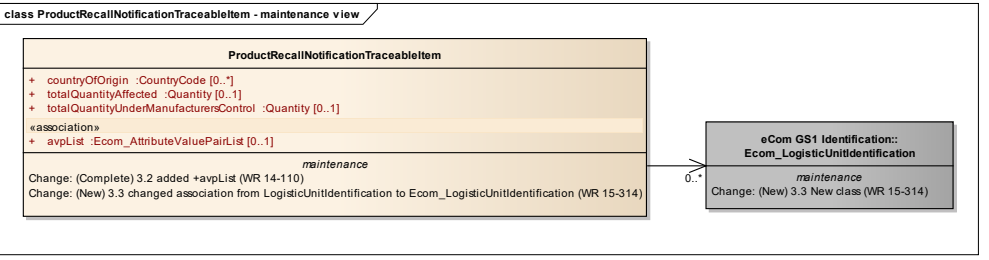
7.3 BMS Release 3.2

Change	Associated WR
Added Attribute Value Pair at the root, line item and sub line item levels	**14-000110**

class ProductRecallNotification - maintenance view

«root»
ProductRecallNotification

+ originalPRNIdentification :GDTI
+ pRNIdentification :GDTI
+ pRNStatusCode :ProductRecallNotificationStatusEnumeration
+ pRNTitle :Description80 [1..*]
+ pRNVersionStatusCode :ProductRecallNotificationVersionStatusEnumeration
+ associatedPRNIdentification :GDTI [0..*]
+ incidentRiskLevelCode :ProductRecallIncidentRiskLevelCode [0..1]
+ isPRNIssuingOrganisationTheBrandOwner :NonBinaryLogicEnumeration [0..1]
+ isPRNIssuingOrganisationThePrimaryRecallOrganisation :NonBinaryLogicEnumeration [0..1]
+ lastUpdatedPRNDateTime :dateTime [0..1]
+ pRNUpdateReason :Description80 [0..*]
+ subsequentPRNIdentification :GDTI [0..1]
+ totalNumberOfAttachments :positiveInteger [0..1]
+ updatedBy :string [0..1] = {1..80}

maintenance
Change: (Verified) 3.2 changed generalisation from Document to eComDocument class to include AVP (WR 14-110)

Change	Associated WR
Added Attribute Value Pair at the root, line item and sub line item levels **class ProductRecallNotificationTradeItem - maintenance view** **ProductRecallNotificationTradeItem** + tradeItemName: string = {1..80} + tradeItemUnitDescriptorCode: TradeItemUnitDescriptorCode + additionalPRNTradeItemInformation: Description80 [0..*] + additionalTradeItemClassificationCode: AdditionalTradeItemClassificationCode [0..*] + brandName: string [0..1] = {1..80} + dataCarrierTypeCode: DataCarrierTypeCode [0..*] + gpcCategoryCode: string [0..1] = {\\d{8}} + gpcCategoryName: string [0..1] = {1..105} + numberOfConsumerUnitsPerItem: Quantity [0..1] + tradeItemSize: Measurement [0..*] «association» + avpList: Ecom_AttributeValuePairList [0..1] *maintenance* Change: (Verified) 3.2 added +avpList (WR 14-110)	**14-000110**
Added Attribute Value Pair at the root, line item and sub line item levels **class ProductRecallNotificationTraceableItem - maintenance ...** **ProductRecallNotificationTraceableItem** + countryOfOrigin :CountryCode [0..*] + «association» avpList :Ecom_AttributeValuePairList [0..1] + totalQuantityAffected :Quantity [0..1] + totalQuantityUnderManufacturersControl :Quantity [0..1] *maintenance* Change: (Verified) 3.2 added +avpList (WR 14-110)	**14-000110**
Added Attribute Value Pair at the root, line item and sub line item levels **class ProductRecallCloseoutNotification - maintenance view** «root» **ProductRecallCloseoutNotification** + originalPRNIdentification :GDTI + pRCNIdentification :GDTI + pRCNStatusCode :ProductRecallNotificationStatusEnumeration + associatedPRNIdentification :GDTI [0..*] + originalPRNIssueDateTime :dateTime [0..1] + pRNTitle :Description80 [0..1] + updatedBy :string [0..1] = {1..80} *maintenance* Change: (Verified) 3.2 changed generalisation from Document to eComDocument class to include AVP (WR 14-110)	**14-000110**

Change	Associated WR
Added Attribute Value Pair at the root, line item and sub line item levels	**14-000110**

class ProductRecallCloseoutNotificationTradeItem - maintenance view

ProductRecallCloseoutNotificationTradeItem

+ tradeItemName: string = {1..80}
+ additionalTradeItemClassificationCode: AdditionalTradeItemClassificationCode [0..*]
+ gpcCategoryCode: string [0..1] = {\\d{8}}
+ gpcCategoryName: string [0..1] = {1..105}

«association»
+ avpList: Ecom_AttributeValuePairList [0..1]

maintenance
Change: (Verified) 3.2 added +avpList (WR 14-110)

Change	Associated WR
Added Attribute Value Pair at the root, line item and sub line item levels	**14-000110**

class ProductRemovalConfirmation - maintenance view

«root»
ProductRemovalConfirmation

+ originalPRNIdentification :GDTI
+ pRCIdentification :GDTI
+ pRCStatusCode :ProductRecallNotificationStatusEnumeration
+ associatedPRNIdentification :GDTI [0..*]
+ originalPRNIssueDateTime :dateTime [0..1]
+ pRNTitle :Description80 [0..*]
+ pRNUpdateReason :Description80 [0..*]
+ updatedBy :string [0..1] = {1..80}

maintenance
Change: (Verified) 3.2 changed generalisation from Document to eComDocument class to include AVP (WR 14-110)

Change	Associated WR
Added Attribute Value Pair at the root, line item and sub line item levels	**14-000110**

class ProductRemovalConfirmationTradeItem - maintenance view

ProductRemovalConfirmationTradeItem

+ dispositionDisclosure: Description80
+ tradeItemName: string = {1..80}
+ additionalTradeItemClassificationCode: AdditionalTradeItemClassificationCode [0..*]
+ additionalTradeItemInformation: Description500 [0..1]
+ gpcCategoryCode: string [0..1] = {\\d{8}}
+ gpcCategoryName: string [0..1] = {1..105}

«association»
+ avpList: Ecom_AttributeValuePairList [0..1]

maintenance
Change: (Verified) 3.2 added +avpList (WR 14-110)

7.4   BMS Release 3.3

Change	Associated WR
Created Ecom_ TradeItemIdentification class and changed association from the previous TradeItemIdentification	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created Ecom_ TradeItemIdentification class and changed association from the previous TradeItemIdentification	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created Ecom_ TradeItemIdentification class and changed association from the previous TradeItemIdentification	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created Ecom_LogisticUnitIdentification class and changed association from the previous LogisticUnitIdentification	**15-000314** Make GS1 identification keys optional in GS1 EDI XML

7.5   BMS Release 3.4

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

7.6   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

9.1   Work Group

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9.2   Development Team Members

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