



Business Message Standard (BMS) Product Recall

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1. Business Domain View

1.1. Problem Statement / Business Need

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 that enables 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, Product Recall Notification, is part of the global GS1 standard for product recall enabling the effective communication and process to conduct a product recall.

1.2. Objective

The business intention is to develop global standards to aid the communication of product recall documented in the Business Requirements Analysis Document (BRAD).

1.3. Audience

This document is intended for anyone who participates in the development of the GS1 Standards for Product Recall, and for the implementers of these standards.

1.4. 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	Provides the shared common artefacts for 3.0 release
BMS eCom Common Library	Provides the eCom common artefacts for 3.0 release

1.5. Acknowledgements

The following is a list of individuals (and their companies) who participated in the creation, review and approval of this BMS.

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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. Additional Technical Requirements Analysis

Not applicable

3.1. Technical Requirements

Not applicable

4. Business Transaction View

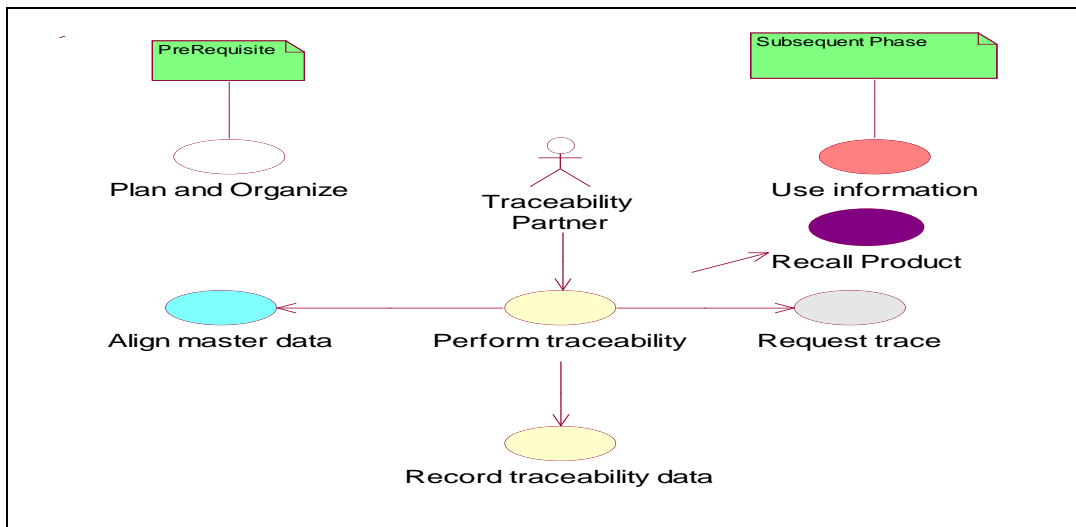
4.1. Business Collaboration – Perform Traceability

4.1.1. Use Case Diagram



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

Figure 4-1 Use Case Diagram: Perform Traceability



4.1.2. 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 supplychain. At each step in the process there is basic data that needs to be collected from TraceabilityData Source and kept and shared with Traceability Data Recipient. All Traceability Partners involved in the supplychain 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 TraceabilityPartner must communicate pre-defined and agreed traceability data to the next Traceability Partner.
Preconditions	Traceability Partners in the supplychain have planned and organized their systems and processes to perform traceability.
Post conditions	Traceability Partners in the supplychain are able to perform traceability.

Scenario	<p><u>Perform Traceability</u></p> <p>Begins when: Traceability Partner wishes to conduct future business. (Template Form)</p> <p>Continues with...</p> <p>Step #</p> <p>Primary Actor</p> <p>Secondary Actor (If necessary)</p> <p>Activity Step</p> <p>Step: 1</p> <p>Actor: Traceability Partner</p> <p>Activity Step: Align master data</p> <p>Step: 2</p> <p>Actor: Traceability Partner</p> <p>Activity Step: Record traceability data</p> <p>Step: 3</p> <p>Actor: Traceability Partner</p> <p>Activity Step: Request Trace</p> <p>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.</p> <p>Step: 4</p> <p>Actor: Traceability Partner</p> <p>Activity Step: Recall Product</p> <p>Ends when: The Product Recall Closeout Acknowledgement is returned to the Product Recall Initiator.</p>
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.

4.1.3. Activity Diagram

Not applicable

4.1.4. Sequence Diagrams

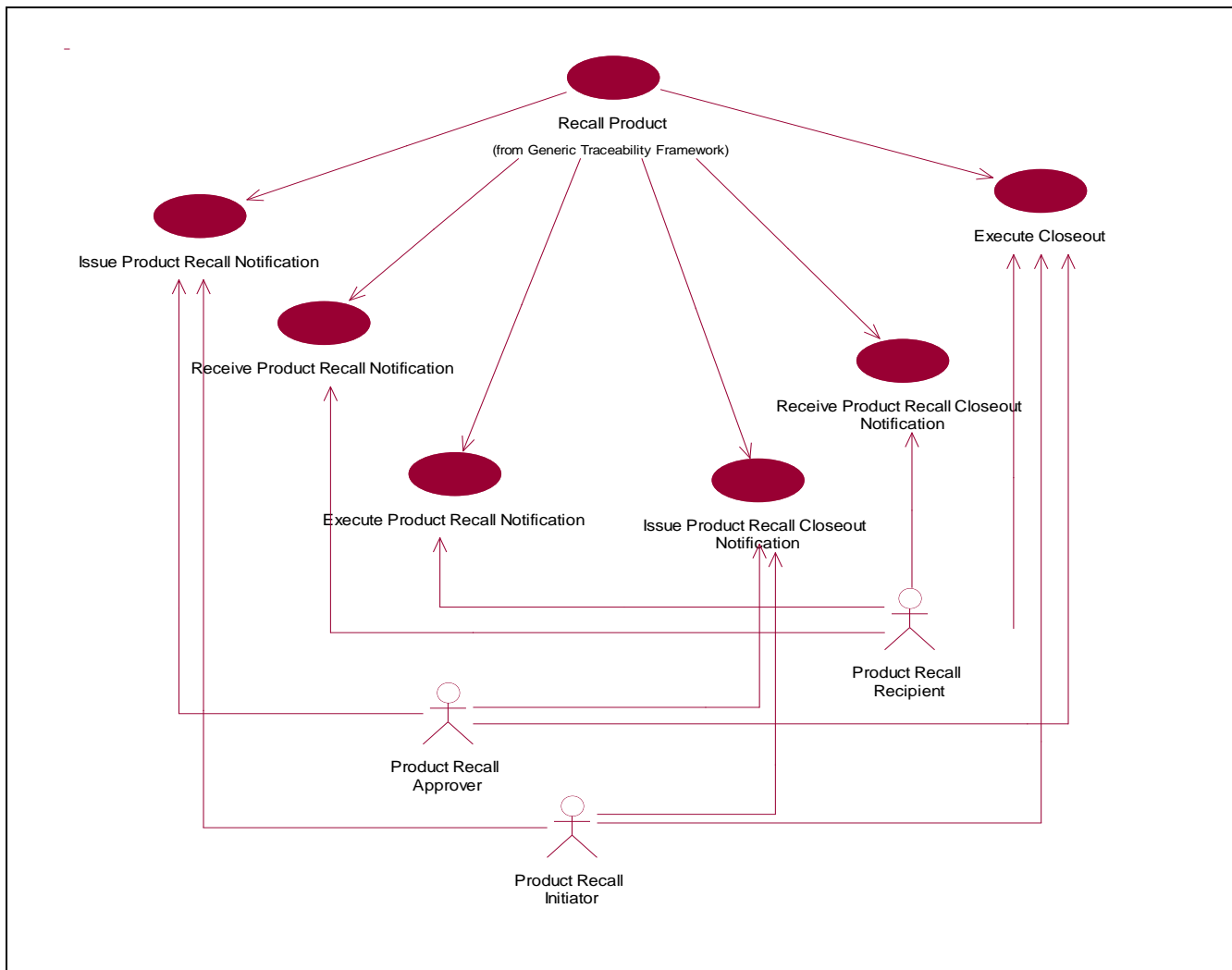
Not Applicable

4.1.5. Use Case Diagram:



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

Figure 2 Recall Product Use Case Diagram



4.1.6. 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.

Use Case ID	UC-1.4
Post conditions	Traceability Partners confirms the Product Recall Closeout.
Scenario	<p>Recall Product Begins when: There is a need for Product Recall.</p> <p>Step: 1a Primary Actor: Product Recall Initiator Activity Step: Initiates the draft Product Recall Notification (PRN).</p> <p>Step: 1b 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.</p> <p>Step: 2a Primary Actor: Product Recall Recipient Activity Step: Product Recall Recipient receives PRN and records internally.</p> <p>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.</p> <p>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</p> <p>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.</p> <p>Step 4a Primary Actor: Product Recall Initiator</p>

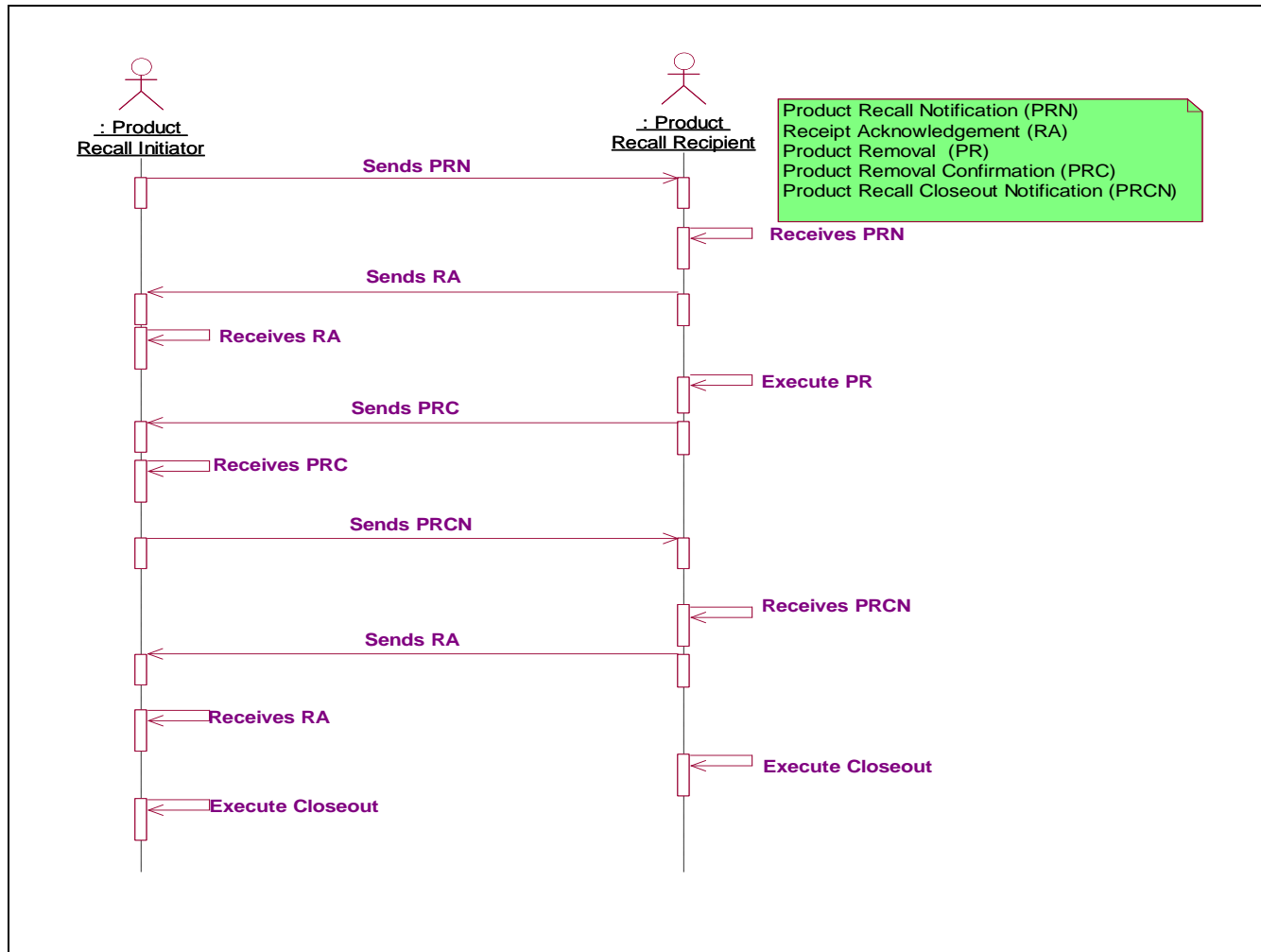
Use Case ID	UC-1.4
	<p>Secondary Actor: Product Recall Approver</p> <p>Activity Step:</p> <p>Product Recall Initiator initiates draft Product Recall Closeout Notification (PRCN).</p> <p>Product Recall Initiator sends draft PRCN to Product Recall Approver</p> <p>Step: 4b</p> <p>Primary Actor: Product Recall Approver</p> <p>Secondary Actor: Product Recall Initiator</p> <p>Activity Step:</p> <p>Product Recall Approver receives draft PRCN from Product Recall Initiator.</p> <p>Product Recall Approver reviews draft PRCN and either approve or reject it.</p> <p>Product Recall Approver approves draft PRCN.</p> <p>Product Recall Approver sends approval to Product Recall Initiator.</p> <p>Product Recall Initiator sends PRCN to Product Recall Recipient.</p> <p>Step: 5a</p> <p>Primary Actor: Product Recall Recipient</p> <p>Secondary Actor: Product Recall Approver</p> <p>Activity Step:</p> <p>Product Recall Recipient receives PRCN</p> <p>Product Recall Recipient records internally</p> <p>Step: 5b</p> <p>Primary Actor: Product Recall Recipient</p> <p>Secondary Actor: Product Recall Approver</p> <p>Activity Step:</p> <p>Product Recall Recipient sends RA</p> <p>Product Recall Approver receives RA</p> <p>Ends: Step: 6</p> <p>Primary Actor: Product Recall Approver, Product Recall Initiator, Product Recall Recipient</p> <p>Activity Step:</p> <p>Product Recall Approver, Product Recall Initiator, Product Recall Recipient execute closeout.</p>
Alternative Scenario	No alternative scenarios
Related Requirements	None
Related Rules	None

4.1.7. Activity Diagram

Not applicable

4.1.8. Sequence Diagrams

Figure 3 Sequence Diagram Recall Product

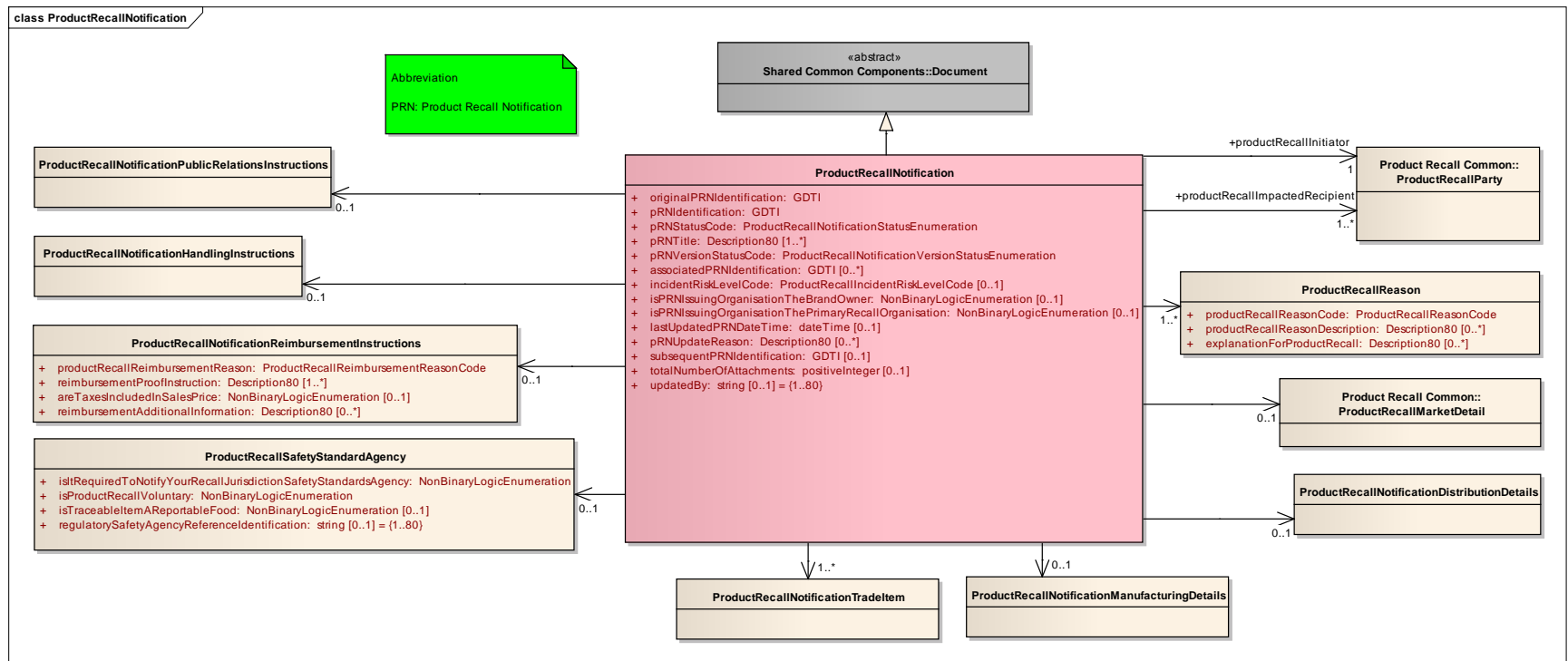


6 Step Initial Product Recall Process

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

5. Information Model (Including GDD Report)

5.1. Class Diagram: Product Recall Notification



5.1.1. GDD Report: ProductRecallNotification

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ProductRecallNotification				Contains the product recall notification details.	
Association		ProductRecallNotificationReimbursementInstructions	0..1	Provides the product recall notification reimbursement instructions.	brad_product_recall:PR N.134

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		ProductRecallNotificationPublicRelationsInstructions	0..1	Provides the public relations instructions.	brad_product_recall:PR N.113
Association	productRecallInitiator	ProductRecallParty	1..1	Provides the party identification, address information of the organisation issuing the Product Recall or Withdrawal Notification.	brad:PRN.59,60,61,64,65,66,67,68,69,70
Generalization		Document		The generic document details are provided.	brad:product_recall.15,16
Association		ProductRecallNotificationHandlingInstructions	0..1	Provides the handling instructions.	brad_product_recall:PR N.128
Association		ProductRecallNotificationManufacturingDetails	0..1	Provides the product recall notification manufacturing details.	brad_product_recall:PR N.54
Association		ProductRecallNotificationDistributionDetails	0..1	Provides the product recall notification distribution details.	brad_product_recall:PR N.76
Association		ProductRecallNotificationTradeItem	1..*	Provides the product recall notification trade item details.	brad_product_recall:PR N.37
Association		ProductRecallSafetyStandardAgency	0..1	Provides the product recall safety standards agency.	brad_product_recall:PR N.19
Association	productRecallImpactedRecipient	ProductRecallParty	1..*	Provides the party identification, address information of the organisation receiving the Product Recall or Withdrawal Notification.	brad:PRN.59,60,61,64,65,66,67,68,69,70
Association		ProductRecallReason	1..*	Describes why the product recall or withdrawal notification is being issued.	brad_product_recall:PR N.28
Association		ProductRecallMarketDetail	0..1	Provides the product recall market details.	brad:product_recall.8
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:PR N.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	brad_product_recall:PR N.1

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
				for global interoperability. A GDTI is a GS1 Key that provides unique document type identification.	
Attribute	pRNStatusCode	ProductRecallNotificationStatusEnumeration	1..1	This is the current status of the Product Recall or Withdrawal Notification.	brad_product_recall:PR N.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:PR N.3_PRCN.11
Attribute	pRNVersionStatusCode	ProductRecallNotificationVersionStatusEnumeration	1..1	Indicates if the Product Recall or Withdrawal Notification is Initial or an Update.	brad_product_recall:PR N.4
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:PR N.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:PR N.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:PR N.62
Attribute	isPRNIssuingOrganisationThePrimaryRecallOrganisation	NonBinaryLogicEnumeration	0..1	Specifies whether the organisation issuing the product recall or withdrawal notification assumes primary responsibility.	brad_product_recall:PR N.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:PR N.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:PR N.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:PR N.7
Attribute	totalNumberOfAttachments	positiveInteger	0..1	Provides the total number of attachments included in the Product Recall Notification.	brad_product_recall:PR N.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:PR N.17

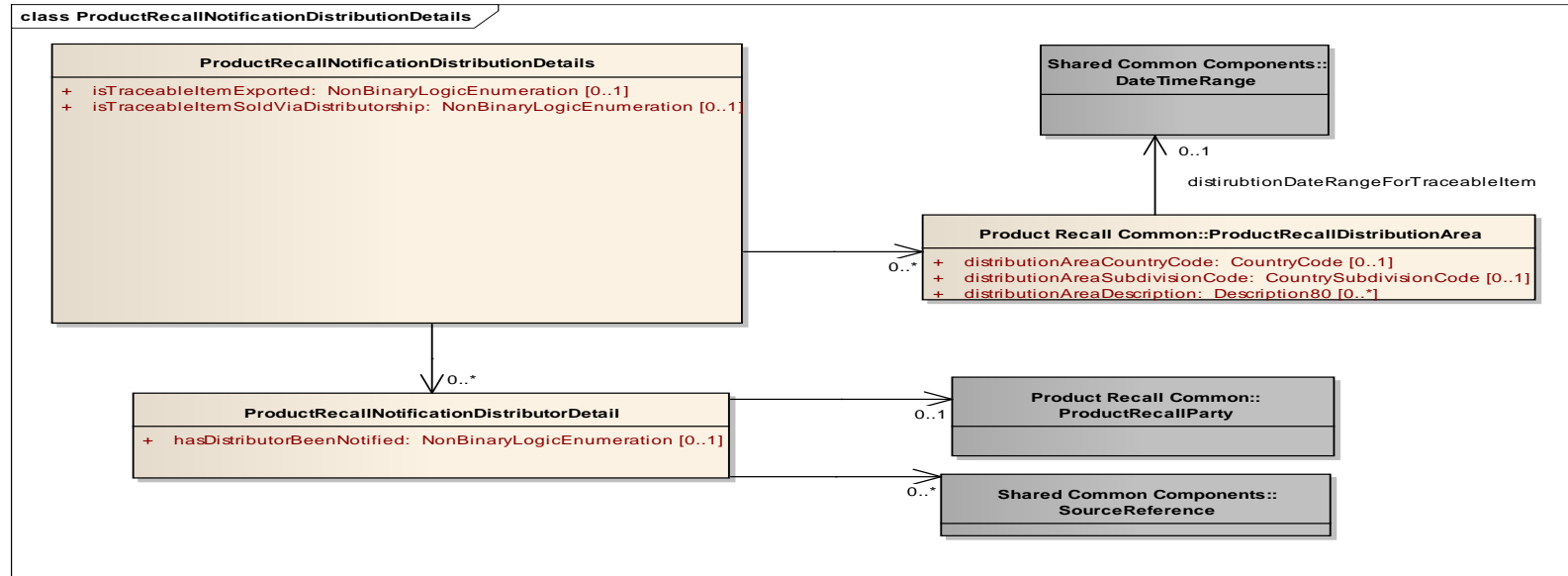
5.1.2. GDD Report: ProductRecallReason

Content	Attribute / Role	Datatype /Secondary class	Multi plicit y	Definition	Requirements
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

5.1.3. GDD Report: ProductRecallSafetyStandardAgency

Content	Attribute / Role	Datatype /Secondary class	Multi plicit y	Definition	Requirements
ProductRecallSafetyStandardAgency				Contains the product recall safety standards agency details.	
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

5.1.4. Class Diagram: ProductRecallNotificationDistributionDetails



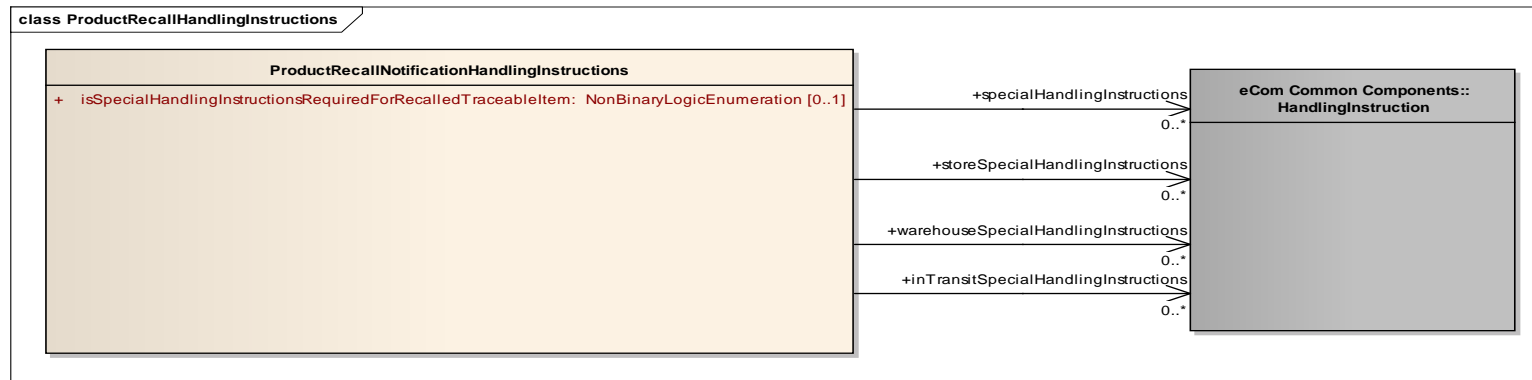
5.1.4.1. GDD Report: ProductRecallNotificationDistributionDetails

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

5.1.4.2. GDD Report: ProductRecallNotificationDistributorDetail

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
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:PR N.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:PR N.73
Attribute	hasDistributor BeenNotified	NonBinaryLogicEnumeration	0..1	Specifies if the distributor has been contacted regarding the product recall or withdrawal notification.	brad_product_recall:PR N.72

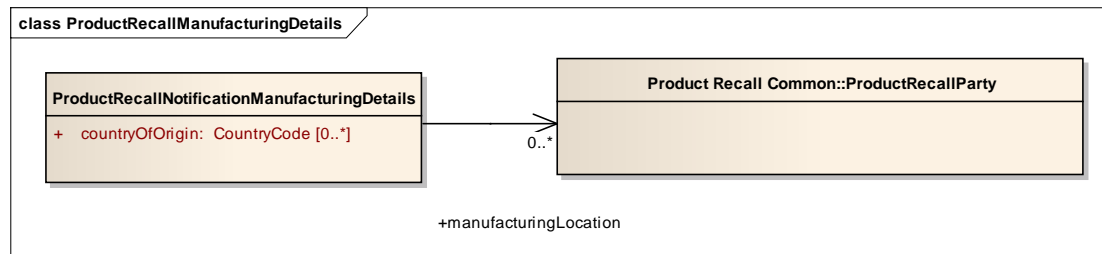
5.1.5. Class Diagram: ProductRecallNotificationHandlingInstructions



5.1.5.1. GDD Report: ProductRecallNotificationHandlingInstructions

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ProductRecallNotificationHandlingInstructions				Contains the product recall handling instruction details.	
Association	inTransitSpecialHandlingInstructions	HandlingInstruction	0..*	Provides specific handling Instruction for the recalled traceable item in transit.	brad_product_recall:PR N.131
Association	warehouseSpecialHandlingInstructions	HandlingInstruction	0..*	Provides specific handling Instruction in warehouse for the recalled traceable item.	brad_product_recall:PR N.130
Association	storeSpecialHandlingInstructions	HandlingInstruction	0..*	Provides specific handling Instruction in store for the recalled traceable item.	brad_product_recall:PR N.129
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:PR N.128
Attribute	isSpecialHandlingInstructionsRequiredForRecalledTraceableItem	NonBinaryLogicEnumeration	0..1	Indicate if recalled traceable item requires special handling. Special handling includes instructions for hazardous material.	brad_product_recall:PR N.128

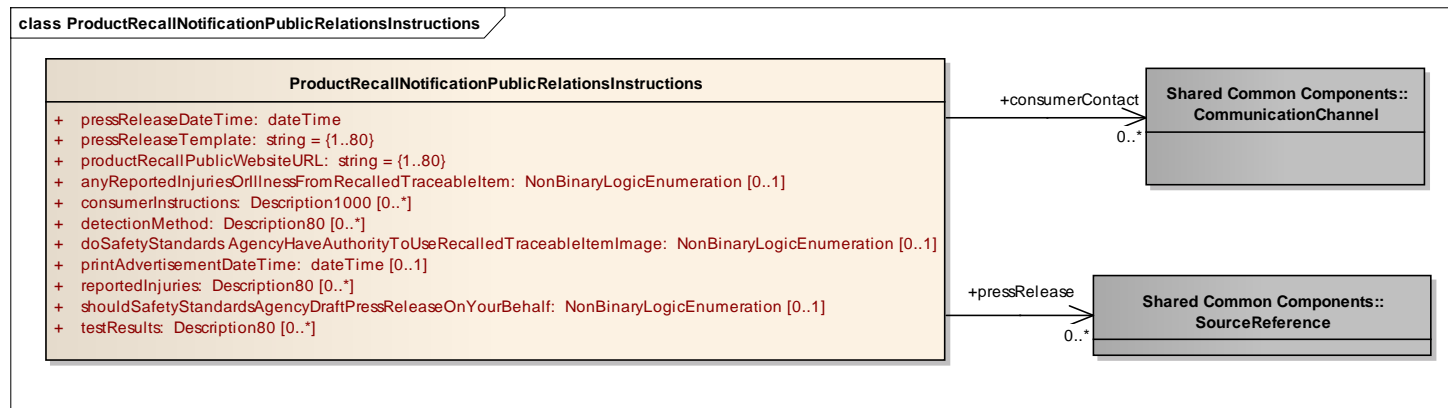
5.1.6. Class Diagram: ProductRecallManufacturingDetails



5.1.6.1. GDD Report: ProductRecallNotificationManufacturingDetails

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ProductRecallNotificationManufacturingDetails				Contains the product recall manufacturing details.	
Association	manufacturingLocation	ProductRecallParty	0..*	Provides the name and address information of the manufacturing locations involved in the product recall.	brad_product_recall:PR N.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:PR N.54

5.1.7. Class Diagram: ProductRecallNotificationPublicRelationsInstructions

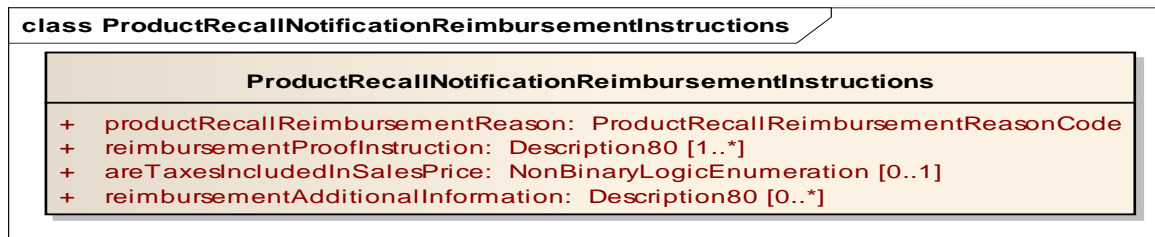


5.1.7.1. GDD Report: ProductRecallNotificationPublicRelationsInstructions

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
ProductRecallNoti ficationPublicRela tionsInstructions				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:PR N.86,87
Association	pressRelease	SourceReference	0..*	Provides the press release files information.	Brad_product_recall:PR N.115,116,117,118,119 ,126
Attribute	pressReleaseDateTime	dateTime	1..1	The date time related to the media information release.	brad_product_recall:PR N.112
Attribute	pressReleaseTemplate	string	1..1	Provides the template for a press release.	brad_product_recall:PR N.113
Attribute	productRecallPublicWe bsiteURL	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:PR N.110
Attribute	anyReportedInjuriesOrI llnessFromRecalledTra ceableItem	NonBinaryLogicEnumeration	0..1	Has there been any reported case of injury / illness associated with any traceable item in this Recall.	brad_product_recall:PR N.120
Attribute	consumerInstructions	Description1000	0..*	Provides comprehensive instruction on physical handling for consumer regarding the recalled traceable item.	brad_product_recall:PR N.133
Attribute	detectionMethod	Description80	0..*	Details on how the problem with the recalled traceable item was detected.	brad_product_recall:PR N.122
Attribute	doSafetyStandards AgencyHaveAuthorityT oUseRecalledTraceabl eItemImage	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:PR N.121

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
Attribute	printAdvertisementDate Time	dateTime	0..1	Provides the date and time the print media will appear.	brad_product_recall:PR N.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:PR N.124
Attribute	shouldSafetyStandards AgencyDraftPressRele aseOnYourBehalf	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:PR N.120
Attribute	testResults	Description80	0..*	Provides any testing on the traceable item in this Recall.	brad_product_recall:PR N.125

5.1.8. Class Diagram: ProductRecallNotificationReimbursementInstructions

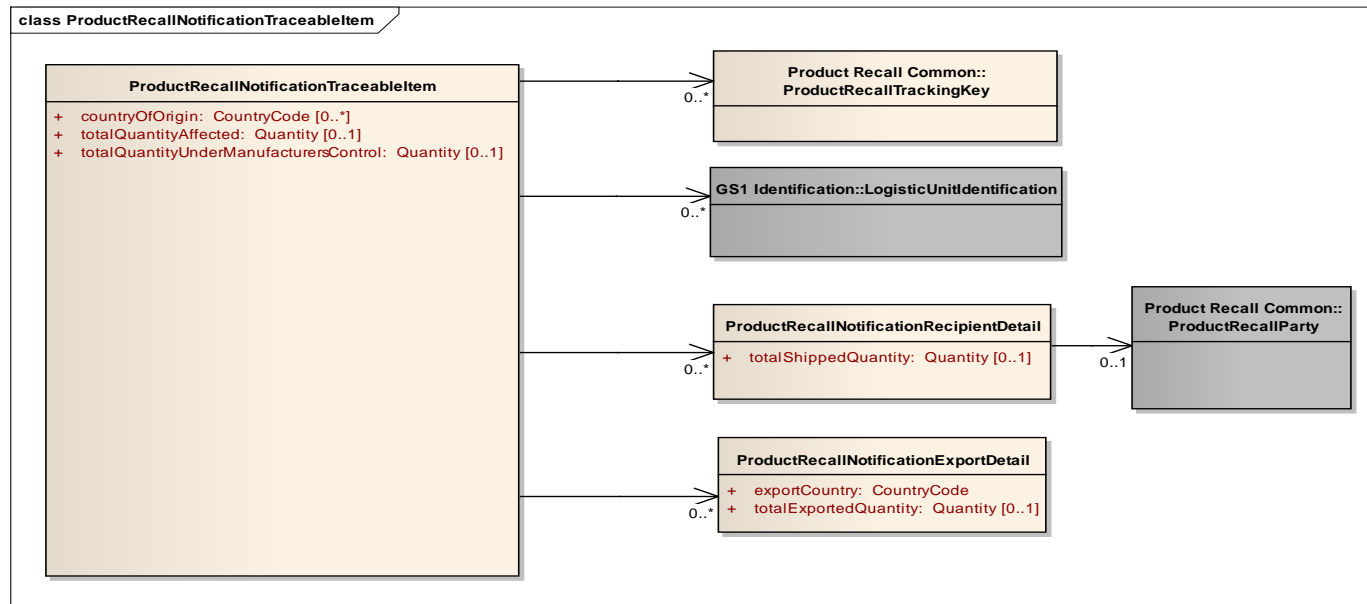


5.1.8.1. GDD Report: ProductRecallNotificationReimbursementInstructions

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
ProductRecallNotific ationReimbursemen tInstructions				Contains the product recall reimbursement instruction details.	
Attribute	productRecallReimb bursementReason	ProductRecallReimbu rsementReasonCode	1..1	The return request to be used by the organisation requesting the reimbursement.	brad_product_recall:P RN.134
Attribute	reimbursementProof Instruction	Description80	1..*	Product Recall issuer will dictate what proof is satisfactory to issue a reimbursement.	brad_product_recall:P RN.135

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	areTaxesIncludedInSalesPrice	NonBinaryLogicEnumeration	0..1	Have taxes been imposed on the sale price of the traceable item.	brad_product_recall:PRN.35
Attribute	reimbursementAdditionalInformation	Description80	0..*	Add any additional information that would assist reimbursing organisation in the reimbursement process.	brad_product_recall:PRN.136

5.1.9. Class Diagram: ProductRecallNotificationTraceableItem



5.1.9.1. GDD Report: ProductRecallNotificationTraceableItem

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ProductRecallNotificationTraceableItem				Contains the product recall traceable item details.	
Association		ProductRecallNotificationExportDetail	0..*	Provides the product recall export details.	

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
Association		ProductRecallTracking Key	0..*	Provides the tracking information.	brad_product_recall:PR N.44
Association		ProductRecallNotificati onRecipientDetail	0..*	Provides the product recall recipient details.	
Association		LogisticUnitIdentificati on	0..*	Provides the logistic Unit Identification.	brad_product_recall:PR N.design phase
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:PR N.54
Attribute	totalQuantityAffe cted	Quantity	0..1	The total number of quantity that are affected by the Product Recall or Withdrawal Notification.	brad_product_recall:PR N.56
Attribute	totalQuantityUnd erManufacturers Control	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:PR N.57

5.1.9.2. GDD Report: ProductRecallNotificationExportDetail

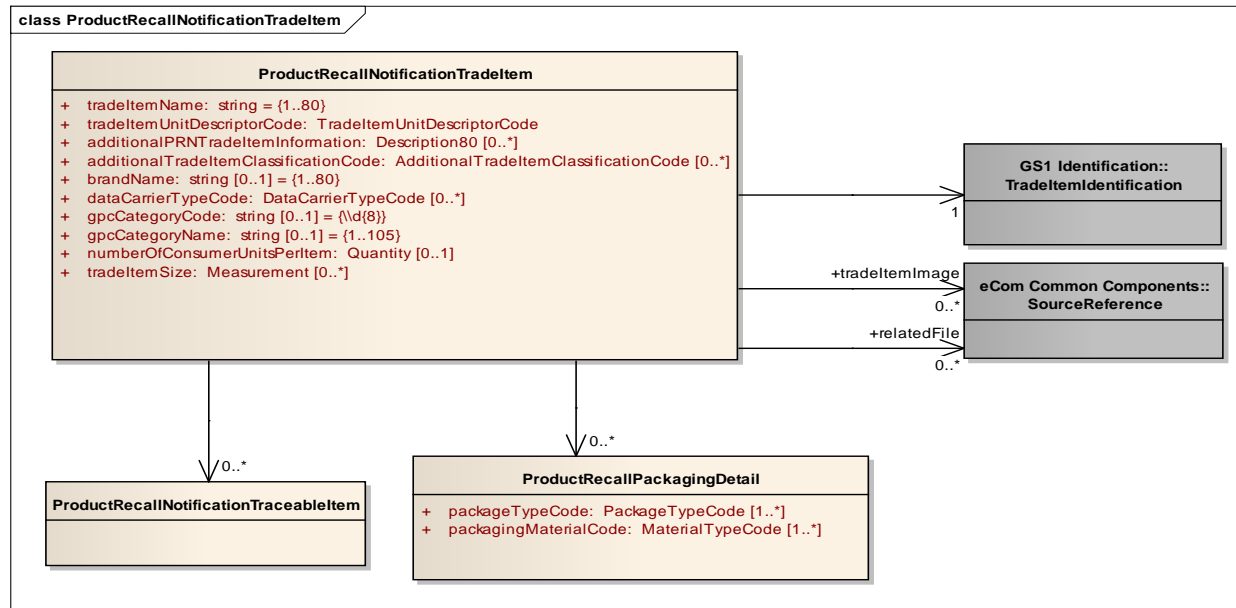
Content	Attribute / Role	Datatype /Secondary class	Multiplic ity	Definition	Requirements
ProductRecallNotifica tionExportDetail				Contains the product recall export details.	
Attribute	exportCountry	CountryCode	1..1	Indicates to which countries the traceable item was exported to.	brad_product_recall:PR N.77
Attribute	totalExportedQuanti ty	Quantity	0..1	Indicate the traceable item quantities exported to each country with the unit of measure.	brad_product_recall:PR N.78

5.1.9.3. GDD Report: ProductRecallNotificationRecipientDetail

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
ProductRecallNotifica tionRecipientDetail				Contains the product recall notification recipient details.	
Association		ProductRecallParty	0..1	Provides the product recall party details.	

Content	Attribute / Role	Datatype /Secondary class	Multipl city	Definition	Requirements
Attribute	totalShippedQuantit y	Quantity	0..1	The total quantity that have shipped from the manufacturer affected by the Product Recall or Withdrawal Notification.	brad_product_recall:PR N.58

5.1.10. Class Diagram: ProductRecallNotificationTradelItem



5.1.10.1. GDD Report: ProductRecallNotificationTradelItem

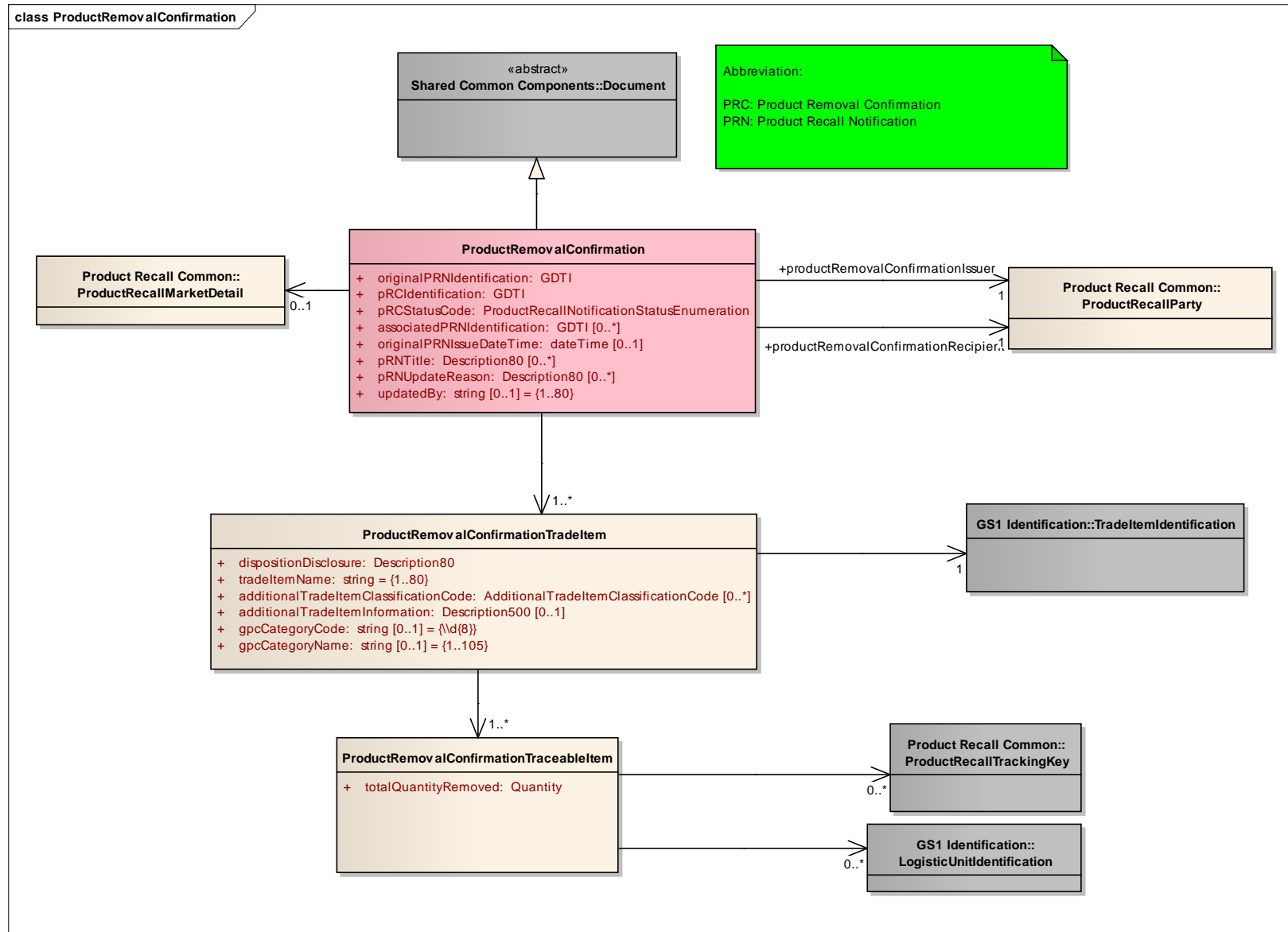
Content	Attribute / Role	Datatype /Secondary class	Multipl city	Definition	Requirements
ProductRecallNotific ationTradelItem				Contains the product recall trade item details.	
Association		ProductRecallPac kagingDetail	0..*	Provides the product packaging details.	

Association		ProductRecallNotif icationTraceableIt em	0..*	Provides the product recall notification traceable item information.	
Association	relatedFile	SourceReference	0..*	Provides the related files.	brad:product_recall.33,34
Association	tradeltemImage	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		TradeltemIdentific ation	1..1	A globally unique number that identifies the traceable item that is being recalled.	brad_product_recall:PRN.40,41
Attribute	tradeltemName	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	tradeltemUnitDescr iptorCode	TradeltemUnitDes criptorCode	1..1	Provides the unit descriptor.	added during design
Attribute	additionalPRNTrad eltemInformation	Description80	0..*	Any additional information regarding this traceable that may be of used by receiving organisations.	brad_product_recall:PRN.42
Attribute	additionalTradelte mClassificationCod e	AdditionalTradelte mClassificationCo de	0..*	The Product Classification and value that best describes the traceable item being recalled/withdrawn.	brad_product_recall:PRN.38
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.	
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	dataCarrierTypeCo de	DataCarrierTypeC ode	0..*	The GS1 data carrier on the Recalled Traceable Item.	brad_product_recall:PRN.43 based on community review
Attribute	numberOfConsume rUnitsPerItem	Quantity	0..1	The number of consumer units contained in each case.	brad_product_recall:PRN.55
Attribute	tradeltemSize	Measurement	0..*	The size and unit of measure identified on the recalled traceable item.	brad_product_recall:PRN.51

5.1.10.2. GDD Report: ProductRecallPackagingDetail

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
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:PR N.52
Attribute	packagingMaterialCode	MaterialTypeCode	1..*	The code identifying the packaging material for the packaging type of the traceable item.	brad_product_recall:PR N.53

5.2. Class Diagram: ProductRemovalConfirmation



5.2.1. GDD Report: ProductRemovalConfirmation

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ProductRemovalConfirmation				Contains the product removal confirmation details.	
Generalization		Document		Provides the document information.	brad_product_recall:PRC.14
Association	productRemovalConfirmationIssuer	ProductRecallParty	1..1	The party identification of the product removal confirmation initiating organisation	brad_product_recall:PRC.2,3
Association		ProductRecallMarketDetail	0..1	The target market to which the recalled traceable item is targeted.	brad_product_recall:PRC.12
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
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 another 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

5.2.2. GDD Report: ProductRemovalConfirmationTraceableItem

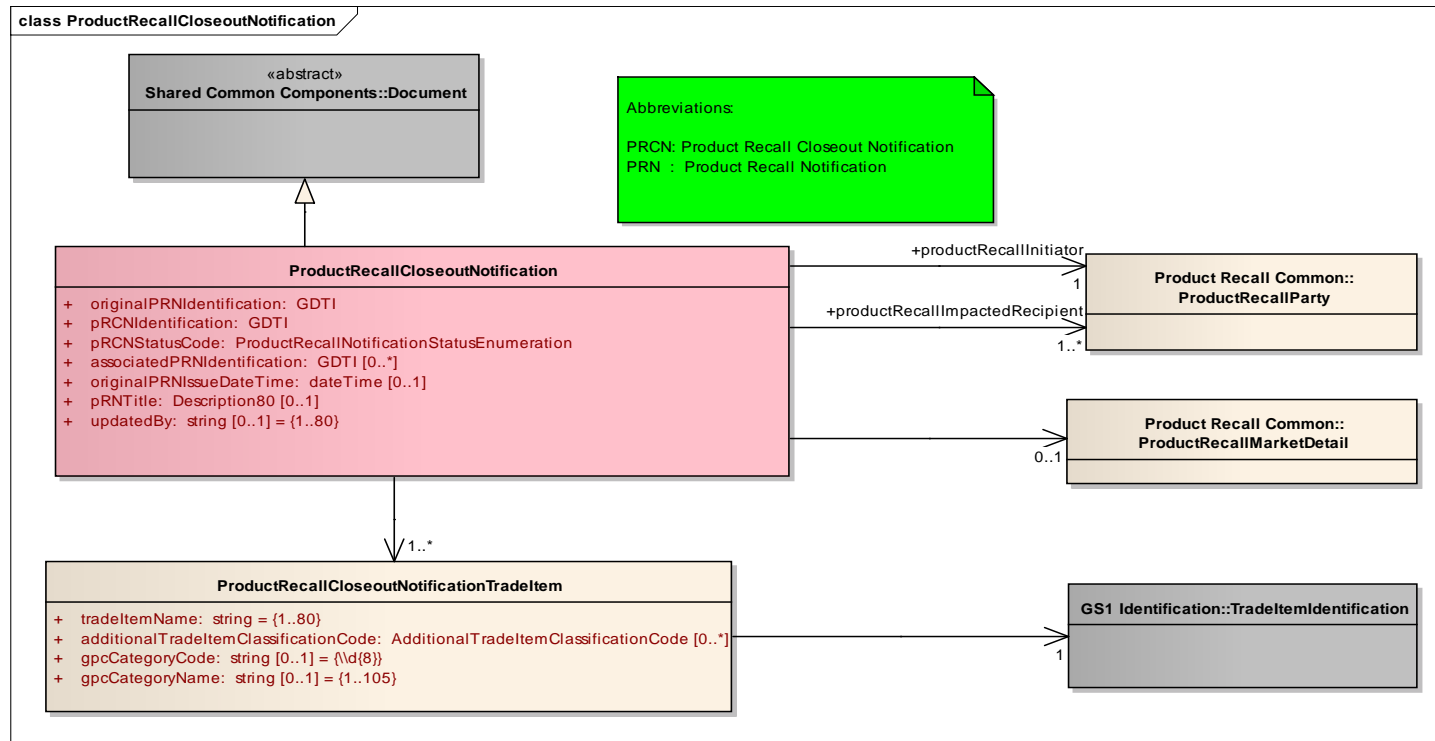
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ProductRemovalConfirmationTraceableItem				Contains the product removal traceable item details.	
Association		ProductRecallTrackingKey	0..*	Provides the traceable item tracking information.	brad_product_recall:PRN.24,25,26
Association		LogisticUnitIdentification	0..*	Provides the logistic unit identification.	
Attribute	totalQuantityRemoved	Quantity	1..1	The total quantity of traceable item removed.	brad_product_recall:PRC.23

5.2.3. GDD Report: ProductRemovalConfirmationTradeItem

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
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	additionalTradeItemClassificationCode	AdditionalTradeItemClassificationCode	0..*	The trade item classification code and value 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.	

5.3. Class Diagram: ProductRecallCloseoutNotification



5.3.1. GDD Report: ProductRecallCloseoutNotification

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
ProductRecallCloseoutNotification				Contains the product recall closeout notification details.	
Association		ProductRecallCloseoutNotificationTradeItem	1..*	Provides the product recall closeout notification trade item details.	
Association	productRecallInitiator	ProductRecallParty	1..1	Provides the product recall closeout initiator identification and address.	brad_product_recall:PRCN.1, 2,3,5,6

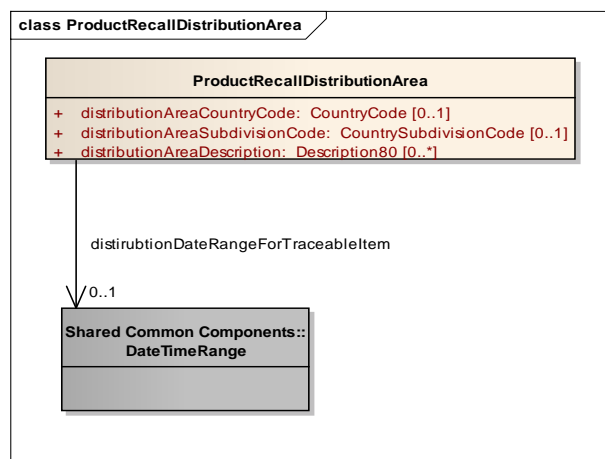
Association	productRecallImpactedRecipient	ProductRecallParty	1..*	The globally unique identification of the product recall or withdrawal closeout recipient organisation.	brad_product_recall:PRCN.7
Association		ProductRecallMarketDetail	0..1	The target market to which the recalled traceable item is targeted.	brad_product_recall:PRCN.13
Generalization		Document		Provides the document details.	brad_product_recall:PRCN.14
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	pRCNStatus Code	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 another earlier Product Recall or Withdrawal Notification.	brad_product_recall:PRCN.12
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

5.3.2. GDD Report: ProductRecallCloseoutNotificationTradeItem

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ProductRecallCloseoutNotificationTradeItem				Contains the product recall closeout trade item details.	
Association		TradeItemIdentification	1..1	Provides the trade item identification.	brad_product_recall:PR CN.16,17
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.18	
Attribute	additionalTradeItemClassificationCode	AdditionalTradeItemClassificationCode	0..*	The additional trade item classification code and value.	brad_product_recall:PR CN.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.	

5.4. Product Recall Common

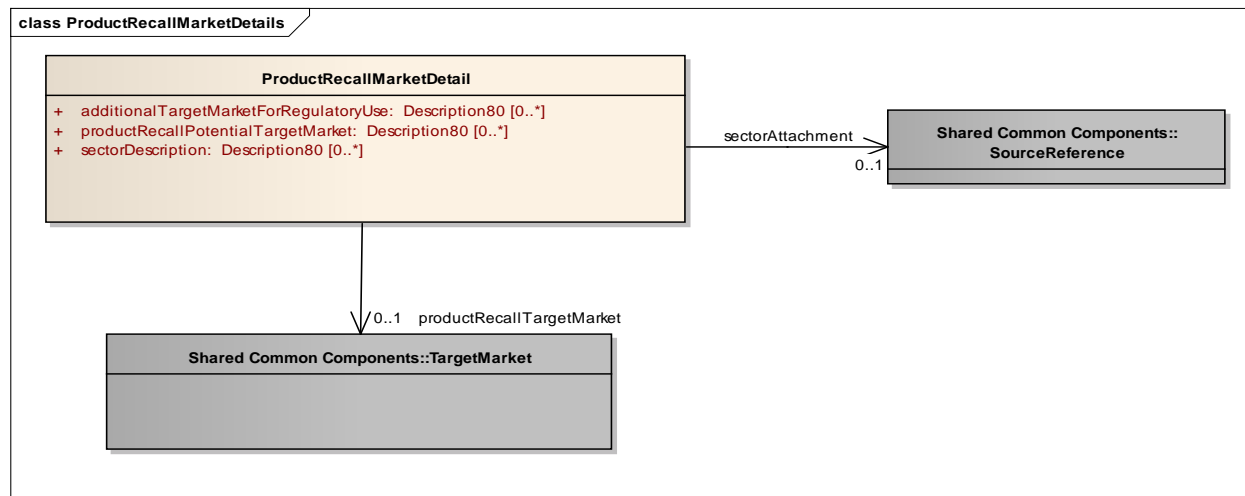
5.4.1. Class Diagram: Product Recall Common ProductRecallDistributionArea



5.4.1.1. GDD Report: 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 (supplychain) 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

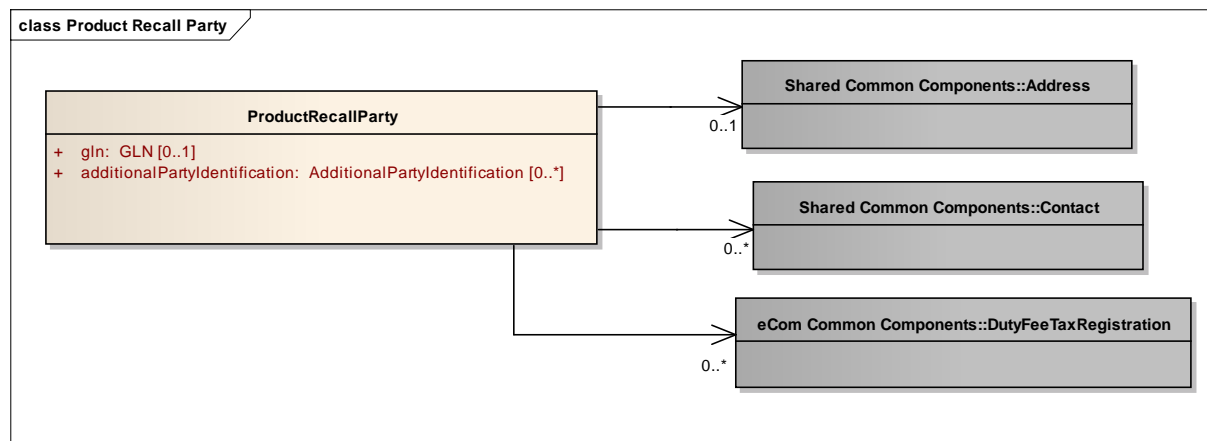
5.4.2. Class Diagram: Product Recall Common ProductRecallMarketDetails



5.4.2.1. GDD Report: ProductRecallMarketDetail

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

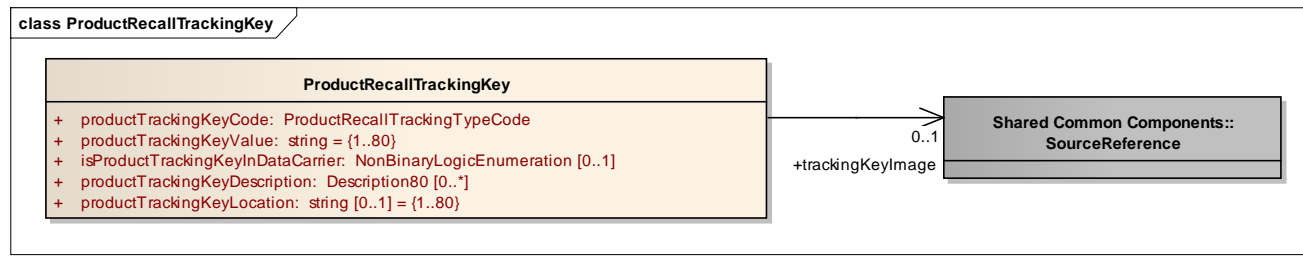
5.4.3. Class Diagram: Product Recall Common Product Recall Party



5.4.3.1. GDD Report: 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		DutyFeeTaxRegistration	0..*	Provides the duty fee tax registration information.	Based on CommunityReview
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	additional PartyIdentification	AdditionalPartyIdentification	0..*	Identification of a party by use of a code other than the Global Location Number.	brad_product_recall:PRN.61

5.4.4. Class Diagram: Product Recall Common ProductRecallTrackingKey

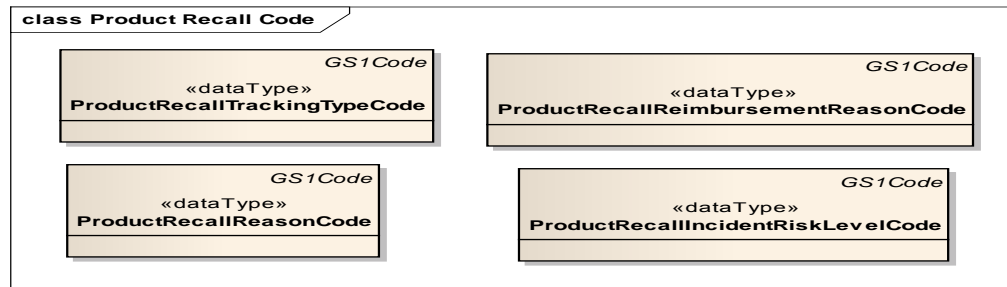


5.4.4.1. GDD Report: ProductRecallTrackingKey

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.	CommunityReview 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

5.4.5. Class Diagram: Product Recall Common Product Recall Code



5.5. GS1 Code Lists

5.5.1. AdditionalPartyIdentification

 **Note:** Reference shared common library for full list

5.5.2. DataCarrierTypeCode

 **Note:** Reference eCom common library for full list

5.5.3. ContactTypeCode

 **Note:** Reference shared common library for full list


5.5.4. CommunicationChannelCode

 **Note:** Reference shared common library for full list

5.5.5. HandlingInstructionCode

 **Note:** Reference eCom common library for full list

5.5.6. MaterialTypeCode

 **Note:** Reference eCom common library for full list and introduced by GDSN

5.5.7. PackageTypeCode

 **Note:** GDSN restricted list based on rec21

Code	Code Name	Definition
AE	Aerosol	A gas-tight, pressure-resistant container with a valve and propellant. When the valve is opened, propellant forces the product from the container in a fine or coarse spray pattern or stream. (e.g., a spray can dispensing paint, furniture polish, etc, under pressure). It does not include atomizers, because atomizers do not rely on a pressurised container to propel product from the container.
AM	Ampoule	A relatively small container made from glass or plastic tubing, the end of which is drawn into a stem and closed by fusion after filling. The bottom may be flat, convex, or drawn out. An ampule is opened by breaking the stem.
AT	Atomizer	A device for reducing a liquid to a fine spray. (e.g., medicine, perfume, etc). An atomizer does not rely on a pressurised container for the propellant. Usually air is provided by squeezing a rubber bulb attached to the atomizer.

BG	Bag	A preformed, flexible container, generally enclosed on all but one side, which forms an opening that may or may not be sealed after filling.
BA	Barrel	A cylindrical packaging whose bottom end is permanently fixed to the body and top end (head) is either removable or non-removable.
BK	Basket	A semi rigid container usually open at the top traditionally used for gathering, shipping and marketing agricultural products.
BO	Bottle	A container having a round neck of relatively smaller diameter than the body and an opening capable of holding a closure for retention of the contents. Specifically, a narrow-necked container as compared with a jar or wide-mouth container. The cross section of the bottle may be round, oval, square, oblong, or a combination of these. Bottles generally are made of glass or plastics, but can also be earthenware or metal. Bottle may be disposable, recyclable, returnable, or reusable.
BX	Box	A non-specific term used to refer to a rigid, three-dimensional container with closed faces that completely enclose its contents and may be made out of any material. Even though some boxes might be reused or become resealed they could also be disposable depending on the product hierarchy.
BJ	Bucket	A container, usually cylindrical, can be equipped with a lid and a handle. (e.g., a pail made of metal, plastic, or other appropriate material).
CG	Cage	A container enclosed on at least one side by a grating of wires or bars that lets in air and light.
CM	Card	A flat package to which the product is hung or attached for display.
CT	Carton	A non-specific term for a re-closable container used mostly for perishable foods (e.g. eggs, fruit).
CS	Case	A non-specific term for a container designed to hold, house, and sheath or encase its content while protecting it during distribution, storage and/or exhibition. Cases are mostly intended to store and preserve its contents during the product's entire lifetime.
CR	Crate	A non-specific term usually referring to a rigid three-dimensional container with semi-closed faces that enclose its contents for shipment or storage. Crates could have an open or closed top and may have internal dividers. Even though some crates might be reused or become resealed they could also be disposable depending on the product hierarchy.
CU	Cup	A small bowl shaped container for beverages, often with a handle.
CY	Cylinder	A rigid cylindrical container with straight sides and circular ends of equal size.
EN	Envelope	A predominantly flat container of flexible material having only two faces, and joined at three edges to form an enclosure. The non-joined edge provides a filling opening, which may later be closed by a gummed or adhesive flap, heat seal, tie string, metal clasp, or other methods.
JR	Jar	A rigid container made of glass, stone, earthenware, plastic or other appropriate material with a large opening, which is used to store products, (e.g., jams, cosmetics).
JG	Jug	A container, normally cylindrical, with a handle and/or a lid or spout for holding and pouring liquids
NT	Net	A container of meshwork material made from threads or strips twisted or woven to form a regular pattern with spaces between the threads that is used for holding, carrying, trapping, or confining something.
NE	Not packed	The item is provided without packaging.
PX	Pallet	A platform used to hold or transport unit loads.

PB	Pallet Box	A three-dimensional container which either has a pallet platform permanently attached at its base or alternatively requires a platform for its handling and storage as due to its constitution it cannot be handled without it. The characteristics of the platform should be specified using the pallet type code list
PO	Pouch	A preformed, flexible container, generally enclosed with a gusset seal at the bottom of the pack can be shaped/arranged to allow the pack to stand on shelf.
RK	Rack	A non specific term identifying a framework or stand for carrying, holding, or storing items. Commonly on wheels and primarily used in the logistical functions to deliver items such as hanging garments, or items on shelves such as dairy products and bakery items and flowers.
RL	Reel	A spool on which thread, wire, film, etc, is wound. Any device on which a material may be wound. Usually has flanged ends and is used for shipping or processing purposes.
SW	Shrinkwrappe d	In packaging, a plastic film around an item or group of items which is heated causing the film to shrink, securing the unit integrity. The use of shrunken film to tightly wrap a package or a unit load in order to bind, protect and immobilize it for further handling or shipping.
SY	Sleeve	A non-rigid container usually made of paper, cardboard or plastic, that is open-ended and is slid over the contents for protection or presentation.
SW	Stretchwrappe d	In packaging, a high-tensile plastic film, stretched and wrapped repeatedly around an item or group of items to secure and maintain unit integrity. The use of stretch film to tightly wrap a package or a unit load in order to bind, protect and immobilize it for further handling or shipping.
PU	Tray	A shallow container, which may or may not have a cover, used for displaying or carrying items.
TB	Tub	Generally, a round flat-bottomed container closed with a large lid, typically used to contain ice cream, margarine, sour cream, confections, and other products.
TU	Tube	A cylindrical container sealed on one end that could be closed with a cap or dispenser on the other end.

5.5.8. Printing Instruction Code



Note: Reference eCom common library

5.5.9. Product Recall Incident Risk Level Code

Code	Definition
CLASS_1	Class 1 recalls are for dangerous or defective products that predictably could cause serious health problems or death.
CLASS_2	Class 2 recalls are for products that might cause a temporary health problem, or pose only a slight threat of a serious nature. One example is a drug that is under-strength but that is not used to treat life-threatening situations.
CLASS_3	Class 3 recalls are for products that are unlikely to cause any adverse health reaction, but that violate FDA labeling or manufacturing regulations. Examples might be a container defect (plastic material delaminating or a lid that does not seal)

5.5.10. Product Recall Reason Code

Code	Definition
ALLERGY_HAZARD_EGG	The reason for the recall is an allergy hazard which involves egg and egg products.

Code	Definition
ALLERGY_HAZARD_FISH	The reason for the recall is an allergy hazard which involves fish and fish products.
ALLERGY_HAZARD_GLUTEN	The reason for the recall is an allergy hazard which involves gluten or gluten derived products
ALLERGY_HAZARD_MILK	The reason for the recall is an allergy hazard which involves milk and milk products.
ALLERGY_HAZARD_PEAUNTS	The reason for the recall is an allergy hazard which involves peanuts and peanut products.
ALLERGY_HAZARD_SHELLFISH	The reason for the recall is an allergy hazard which involves shellfish and shellfish products.
ALLERGY_HAZARD_SOY	The reason for the recall is an allergy hazard which involves soy and soy products.
ALLERGY_HAZARD_TREE_NUTS	The reason for the recall is an allergy hazard which involves tree nuts and tree nut products.
ALLERGY_HAZARD_WHEAT	The reason for the recall is an allergy hazard which involves wheat and wheat products.
CHEMICAL	The reason for the recall is due to chemical reasons.
DEIGN_FAULT	The reason for the recall is due to a default in the design of the product.
DIRECTIVE_FROM_REGULATORY_AGENCY	The reason for the recall is due to a directive from a regulatory agency.
MISLABELED_PRODUCT	The reason for the recall is due to a mislabeled product.
OTHER_PLEASE_SPECIFY	The reason for the recall is other reasons.
PATHOGEN_BACTERIA_BOTULISM	The reason for the recall is the pathogen bacteria botulism.
PATHOGEN_BACTERIA_ECOLI_STEC	The reason for the recall is the pathogen bacteria E. Coli (STEC).
PATHOGEN_BACTERIA_LISTERIA_MONOCYTOGENES	The reason for the recall is the pathogen bacteria listeria monocytogenes.
PATHOGEN_BACTERIA_OTHER	The reason for the recall is the pathogen bacteria not listed in this code list.
PATHOGEN_BACTERIA_SALMONELLA	The reason for the recall is the pathogen bacteria Salmonella
PATHOGEN_BACTERIA_SHIGELLA	The reason for the recall is the pathogen bacteria Shigella
PATHOGEN_VIRUS_HEPATITIS_A	The reason for the recall is the pathogen virus Hepatitis A.
PATHOGEN_VIRUS_OTHER_NOROVIRUS	The reason for the recall is the pathogen virus Norovirus.
PATHOGEN_VIRUS_OTHER	The reason for the recall is the pathogen virus not listed in this code list.
PHYSICAL_GLASS	The reason for the recall is a physical hazard which involves glass and glass products.
PHYSICAL_METAL	The reason for the recall is a physical hazard which involves metal and metal products.
PHYSICAL_OTHER	The reason for the recall is a physical hazard which involves components not listed in this code list.
PHYSICAL_PLASTIC	The reason for the recall is a physical hazard which involves plastic and plastic products.

Code	Definition
PHYSICAL_WOOD	The reason for the recall is a physical hazard which involves wood and wood products.
QUALITY	The reason for the recall is due to quality.
TAMPERING	The reason for the recall is due to tampering
UNAUTHORIZED_DISTRIBUTION	The reason for the recall is due to unauthorized distribution
UNKNOWN	The reason for the recall is either unknown or is not specified.

5.5.11. ProductRecallReimbursementReasonCode

Code	Definition
DM_DEFECTIVE_MERCAHNDISE_OR_STO RE_INSEPCION	When product or traceable item has been damaged it is the reason for the return and reimbursement.
DP_DEFECTIVE_PACKAGING	When product or traceable item has damage to the container or package and is the reason it is being returned for reimbursement.
DR_DEFECTIVE_MERCHANDISE_OR_RET URNED_BY_CUSTOMER	When the user or customer of a product or traceable item has brought back the product or trade item.
LP_LABEL_PROBLEM	When a product or traceable item has issues with the label it is a reason for it to be returned to the supplier/manufacture.
SP_SHIPPED_PAST_CANCEL_DATE	The product or traceable item has been returned to the supplier / manufacturer because it is outside the delivery schedule and cannot be processed (used or sold) because the merchandise was receive after the cancelled delivery date.

5.5.12. ProductRecallTrackingTypeCode

Code	Definition
BATCH_LOT_CODE	An alpha/numeric value identifying a specific batch or lot of the traceable item.
BEST_BEFORE_DATE	The date the traceable item's quality or freshness can no longer be guaranteed. (synonym- Best Used By)
CLOSED_CODE_DATE	The manufacture assigned coded date.
EXPIRY_DATE	The date the traceable item should no longer be consumed
HARVEST_DATE_CODE	Date when traceable item was harvested or picked
OTHER	Allows the user to specify the tracking code type being used on the traceable item.
PURCHASED_BY_DATE	The date the traceable item is to be purchase by.
SELL_BY_DATE	The date the traceable item is to be sold by.
SERIAL_NUMBER	An alpha/numeric value identifying a unique instance of the traceable item.

5.5.13. TradeItemUnitDescriptorCode



Note: Reference eCom common library for full list and introduced by GDSN

5.6. Product Recall Enumeration

5.6.1. ProductRecallNotificationStatusEnumeration

Code	Definition
DRAFT	Product Recall Notification, Product Removal or Product Close Out which has not been approved for issue.
ISSUED	Product Recall Notification, Product Removal or Product Close Out which has been approved and issued.
CLOSED	Product Recall Notification, Product Removal or Product Close Out which has been processed and closed out.



5.6.2. ProductRecallNotificationVersionStatusEnumeration

Code	Definition
INITIAL	An initial PRN is issued to initiate the product recall.
UPDATE	An update can be sent to communicate changes to the initial PRN.

6. Business Document Examples

6.1. Example 1–Product Recall Notification

This is a sample Product Recall Notification message.

- 
Note: Data is for sample purpose only. Not all elements have been used in the sample data.
- 
Note: Usage column is for reference purpose ONLY: Helps to identify what is mandatory / optional.

ProductRecallNotification	Value	Usage
creationDateTime	2011-08-20T16:00:00	Mandatory
documentStatusCode	ORIGINAL	Mandatory
documentActionCode	ADD	Optional
documentStructureVersion	3.0	Optional
pRNIdentification (GDTI)	0857674002331CP855	Mandatory
originalPRNIdentification (GDTI)	0857674002331	Mandatory
pRNStatusCode	ISSUED	Mandatory
pRNTitle (English)	Pink Product Recall	Mandatory
pRNVersionStatusCode	INITIAL	Mandatory
incidentRiskLevelCode	CLASS_2	Optional
isPRNIssuingOrganisationThePrimaryRecallOrganisation	TRUE	Optional
ProductRecallParty(+productRecallIn		Mandatory

itiator)		
gln	0857674002003	Optional
Contact		Optional
personName	CaseyCrow	Optional
jobTitle	Director Process Control	Optional
contactTypeCode	PRODUCT_RECALL_CONTACT	Optional
Communication Channel (1X)		Optional
communicationChannelCode	TELEPHONE	Mandatory
communicationValue	333-123-4444	Mandatory
Communication Channel (2X)		Optional
communicationChannelCode	EMAIL	Mandatory
communicationValue	sgarcia@org1.org	Mandatory
Communication Channel (+afterHourCommunicationChannel)		Optional
communicationChannelCode	TELEPHONE	Mandatory
communicationValue	333-123-4445	Mandatory
ProductRecallParty(+productRecallImpactedRecipient)		Mandatory
additionalPartyIdentification	BUYER_ASSIGNED_IDENTIFIER_FOR_A_PARTY	Optional
additionalPartyIdentificationValue	7777777	Optional
Address		Optional
city	Town USA	Optional
streetAddressOne	999 Main Street	Optional
state	LA	Optional
postalCode	56324	Optional
Contact		Optional
personName	Athena Gilbert	Optional
jobTitle	Vice President Operations	Optional
Communication Channel (1X)		Optional
communicationChannelCode	TELEPHONE	Mandatory
communicationValue	777-123-4444	Mandatory
ProductRecallReason (1X)		Mandatory
productRecallReasonCode	ALLERGY_HAZARD_PEAUNTS	Mandatory
explanationForRecallReason	Traces of peanuts were discovered in the product.	Optional
ProductRecallReason (2X)		Optional
productRecallReasonCode	ALLERGY_HAZARD_GLUTEN	Mandatory
explanationForRecallReason	Traces of peanuts were discovered in the product.	Optional
ProductRecallMarketdetail		Optional

productRecallPotentialTargetMarket (1X)	South East United States	Optional
productRecallPotentialTargetMarket (2X)	LA, GA, FL, SC	Optional
additionalTargetMarketForRegulatory Use	School	Optional
sectorDescription	Consumer Packaged Goods	Optional
ProductRecallNotificationDistribution Details		Optional
isTraceableItemExported	FALSE	Optional
isTraceableItemSoldViaDistributorship	FALSE	Optional
ProductRecallDistributionArea		Optional
distributionAreaCountryCode	USA	Optional
distributionAreaSubdivisionCode	LA	Optional
DateTimeRange (+distributionDateRangeForTraceableItem)		Optional
beginDate	2011-07-04	Optional
endDate	2011-07-23	Optional
ProductRecallNotificationTradeItem		Mandatory
tradeItemName	Pink Product	Mandatory
tradeItemUnitDescriptorCode	BASE_UNIT_OR_EACH	Mandatory
dataCarrierTypeCode	GS1_DATA_MATRIX	Optional
brandName	Brand ZZ	Optional
tradeItemSize	535 (Grams)	Optional
TradeItemIdentification		Mandatory
gtin	00857674002010	Mandatory
SourceReference (+tradeItemImage)		Optional
referenceURI	www.productinfo.com	Optional
referenceIdentifier	Provides the product details	Optional
ProductRecallPackagingDetail		Optional
packageTypeCode	BO	Mandatory
packagingMaterialCode (1X)	COLOURED_GLASS	Mandatory
packagingMaterialCode (2X)	BIO_PLASTIC	Optional
ProductRecallNotificationTraceableItem		Optional
totalQuantityAffected	3050	Optional
totalQuantityUnderManufacturersControl	2000	Optional
ProductRecallTrackingKey (1X)		Optional

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

ProductRecallNotificationPublicRelationsInstructions		Optional
pressReleaseDateTime	2011-08-31T16:00:00	Mandatory
pressReleaseTemplate	Template 33	Mandatory
productRecallPublicWebsiteURL	www.publicsite.com	Mandatory

6.2. Example 2 –Product Removal Confirmation



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

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

personName	CaseyCrow	Optional
jobTitle	Director Process Control	Optional
Communication Channel (1X)		Optional
communicationChannelCode	TELEPHONE	Mandatory
communicationValue	333-123-4444	Mandatory
ProductRecallMarketdetail		Optional
productRecallPotentialTargetMarket (1X)	South East United States	Optional
productRecallPotentialTargetMarket (2X)	LA, GA, FL, SC	Optional
additionalTargetMarketForRegulatoryUse	School	Optional
sectorDescription	Consumer Packaged Goods	Optional
ProductRemovalConfirmationTradeltm		Mandatory
dispositionDisclosure	Destroy in field.	Mandatory
tradelItemName	Pink Product	Mandatory
TradelItemIdentification		Mandatory
gtin	00857674002010	Mandatory
ProductRemovalConfirmationTraceableItem		Mandatory
totalQuantityRemoved	33	Mandatory
ProductRecallTrackingKey		Optional
productTrackingKeyCode	SELL_BY_DATE	Mandatory
productTrackingKeyValue	2011-12-25	Mandatory
productTrackingKeyLocation	Bottom of bottle	Optional
SourceReference(+trackingKeyImage)		Optional
referenceURI	www.business.org	Optional

6.3. Example 3–Product Recall Closeout Notification



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

ProductRecallCloseoutNotification	Value	Usage
creationDateTime	2011-09-20T16:00:00	Mandatory
documentStatusCode	ORIGINAL	Mandatory
documentActionCode	ADD	Optional
documentStructureVersion	3.0	Optional
originalPRNIdentification (GDTI)	0857674002331	Mandatory
pRCNIdentification (GDTI)	0857674002447	Mandatory

pRCNStatusCode	CLOSED	Mandatory
originalPRNIssueDateTime	2011-08-20T16:00:00	Optional
pRNTitle (English)	Pink Product Recall	Optional
ProductRecallParty(+productRecallInitiator)		Mandatory
gln	0857674002003	Optional
Contact		Optional
personName	CaseyCrow	Optional
jobTitle	Director Process Control	Optional
contactTypeCode	PRODUCT_RECALL_CONTACT	Optional
Communication Channel (1X)		Optional
communicationChannelCode	TELEPHONE	Mandatory
communicationValue	333-123-4444	Mandatory
Communication Channel (2X)		Optional
communicationChannelCode	EMAIL	Mandatory
communicationValue	sgarcia@org1.org	Mandatory
Communication Channel (+afterHourCommunicationChannel)		Optional
communicationChannelCode	TELEPHONE	Mandatory
communicationValue	333-123-4445	Mandatory
ProductRecallParty(+productRecallImpactedRecipient)		Mandatory
additionalPartyIdentification	BUYER_ASSIGNED_IDENTIFIER_FOR_A_PARTY	Optional
additionalPartyIdentificationValue	7777777	Optional
Address		Optional
city	Town USA	Optional
streetAddressOne	999 Main Street	Optional
state	LA	Optional
postalCode	56324	Optional
Contact		Optional
personName	Athena Gilbert	Optional
jobTitle	Vice President Operations	Optional
Communication Channel (1X)		Optional
communicationChannelCode	TELEPHONE	Mandatory
communicationValue	777-123-4444	Mandatory
ProductRecallMarketdetail		Optional
productRecallPotentialTargetMarket (1X)	South East United States	Optional
productRecallPotentialTargetMarket	LA, GA, FL, SC	Optional

(2X)		
additionalTargetMarketForRegulatory Use	School	Optional
sectorDescription	Consumer Packaged Goods	Optional
ProductRecallCloseoutNotificationTra deltem		Mandatory
tradeItemName	Pink Product	Mandatory
TradeItemIdentification		Mandatory
gtin	00857674002010	Mandatory

7. Implementation Considerations

Not Applicable

8. Testing

Not Applicable

8.1. Pass / Fail Criteria

Not Applicable

8.2. Test Data

Not Applicable

9. Adherence to Architectural Principles

#	AG Principle	BSD Adherence Statement	Does BSD Adhere?	Comment
2.1	The GS1 Architecture shall be fully aligned to GS1 Strategy, Vision, & Mission	The solution in the BSD is aligned with the business problem as defined in the CR and BCD.	<input checked="" type="checkbox"/>	
2.2	The GS1 Architecture shall leverage the use of GS1 Keys	The solution maintains the GS1 keys as the primary, mandatory identifiers.	<input checked="" type="checkbox"/>	<ul style="list-style-type: none"> Currently, the BSD does not require the use of the GLN as the primary identifier for the recipient in the Product Recall Notification steps 1 and 2 of the Product Recall process In Steps 1 and 2, the Recipient GLN is not a key for the document. The initiator GLN is the key for the document and the initiator GLN is required in the BRAD. The rationale is that the business process demands that a company without a GLN must still receive the Product Recall Notification. In Step 3, when the same entity becomes the initiator of the Product Removal Confirmation, the use of GLN to identify the sender is mandatory. The rationale is that a company that wishes to continue to work the process must adhere to the standard. AG Resolution: For the Product Recall Standard itself, the use of the GS1 key as primary identifier for recipients is recommended, the use of the GS1 Key is not mandatory for Product Recall document recipients <p>If there is a service or solution provided by or related to GS1, the use of the GS1 key becomes mandatory for use in this service or solution.</p>

#	AG Principle	BSD Adherence Statement	Does BSD Adhere?	Comment
2.3	The GS1 Architecture shall leverage the common GS1 Global Data Dictionary (GDD)	The solution does not alter the formats of primary identifiers and complies with data elements as defined in the Global Data Dictionary.	<input checked="" type="checkbox"/>	
2.4	The GS1 Architecture shall be forward-looking, provide for migration strategies and backward compatibility, and support adaptable and flexible solutions	The solution is backwards compatible according to the stated scope in the document. The solution takes into consideration the potential impact of the standard, especially with respect to implementation and maintenance. Any potential known impact is documented.	<input checked="" type="checkbox"/>	
2.5	The GS1 Architecture shall support business processes tied to trading partner needs, relevant, and committed to demonstrable business value	All business requirements contained in the related BRAD come from trading partners or representatives with a genuine intention to implement the standards when developed. All requirements are driven by the business needs of the trading partners.	<input checked="" type="checkbox"/>	
2.6	The GS1 Architecture shall enable security where appropriate	Security solutions are included where appropriate.	<input checked="" type="checkbox"/>	
2.7	The GS1 Architecture shall be consistent	The solution does not violate consistency of the data architecture within each layer and between each layer of the GS1 System. For example, requirements do not alter a key used across GS1 standards or alter a reusable object without applying this change across related standards.	<input checked="" type="checkbox"/>	
2.8	The GS1 Architecture shall be royalty-free	The solution supports this principle where possible. The solution may include the use of other standards organizations that may not be royalty free.	<input checked="" type="checkbox"/>	
3.1	The GS1 Architecture should promote the achievement of the best overall value at the lowest total cost of ownership	The solution promotes the achievement of the best overall value at the lowest total cost of ownership.	<input checked="" type="checkbox"/>	
3.2	The GS1 Architecture should promote scalability	The solution takes into consideration the potential scalability of the standard. Any potential known impact to scalability is documented.	<input checked="" type="checkbox"/>	
3.3	The GS1 Architecture should promote seamless integration	The BSD promotes seamless integration with other GS1 Standards if in scope.	<input checked="" type="checkbox"/>	

#	AG Principle	BSD Adherence Statement	Does BSD Adhere?	Comment
3.4	The GS1 Architecture should promote interoperability and compliance	The solution takes into consideration data and process interoperability. For example, any shared objects between interoperable messages must remain consistent. Any potential known impact to interoperability is documented.	<input checked="" type="checkbox"/>	
3.5	The GS1 Architecture should promote simplicity and standard interfaces	The solution does not threaten the standardisation of the interfaces of the GS1 System. Interfaces are not limited to references to technology but also include such ideas as business interfaces and process interfaces.	<input checked="" type="checkbox"/>	
3.6	The GS1 Architecture should avoid duplication	The solution does not create duplications with existing GS1 components. If there are potential duplications, these are documented with a stated rationale for the duplication.	<input checked="" type="checkbox"/>	
3.7	The GS1 Architecture should promote technology independence and a layered approach	The solution does not impose implicit or explicit restrictions of any technology.	<input checked="" type="checkbox"/>	
3.8	The GS1 Architecture should promote global cross-sector definitions and leverage the best of global and the best of local	The solution takes into account a global perspective.	<input checked="" type="checkbox"/>	
3.9	The GS1 Architecture shall leverage a common strategy for extensibility	This solution uses consistent and common, extensibility approaches, methodologies and technology where available and applicable.	<input checked="" type="checkbox"/>	
4.1	In support of a common GS1 Architecture, GS1 shall leverage work of other standards bodies wherever possible.	This solution utilizes works of other standards bodies wherever possible.	<input checked="" type="checkbox"/>	
4.2	In support of a common GS1 Architecture, GS1 shall strive to eliminate exceptions and variances wherever possible	The solution strives to eliminate exceptions and variances wherever possible and does not create new variances.	<input checked="" type="checkbox"/>	

10. Summary of Changes

Change	BSD Version	Associated CR Number
Initial Draft	0.0.1	Not Applicable
<p>Changes based on XML feedback</p> <ul style="list-style-type: none"> Replaced BinaryFileReference with SourceReference. Added SourceReference in SharedCommon. Added GDTI in Shared Common <p>Generalized GS1Code for following datatype</p> <ul style="list-style-type: none"> ProductRecallTrackingTypeCode ProductRecallReasonCode ProductRecallReimbursementReasonCode ProductRecallIncidentRiskLevelCode <p>Replaced following attributes to Code for GDSN review to be completed</p> <ul style="list-style-type: none"> MaterialTypeCode PackagingTypeCode TradeItemUnitDescriptorCode <p>ProductRecallNotificationVersionStatusEnumeration</p> <p>Code Values updated per methodology</p> <ul style="list-style-type: none"> INITIAL UPDATE <p>Changed datatype to Description80</p> <p>Class: ProductRecallNotificationTradeItem</p> <p>Attribute: additionalPRNTradeItemInformation</p>	0.0.2	Not Applicable
<p>Sample Data</p> <ul style="list-style-type: none"> Added usage column to help identify mandatory/optional fields. Updated sample data <p>Updated Codes from GDSN as their review was completed in Cologne.</p> <ul style="list-style-type: none"> MaterialTypeCode PackagingTypeCode TradeItemUnitDescriptorCode <p>Reviewed and agreed with Product Recall Process changes to Global Traceability Standard.</p>	1.0.0	Not Applicable

Change	BSD Version	Associated CR Number
<p>Removed TAX IDENTIFICATION proposal from AdditionalPartyIdentificationList.</p> <p>Added [0..*]Association ProductRecallPartyTO DutyFeeTaxRegistration to express Tax Identification</p> <p><u>Added in ProductRecallTrackingKey</u> isProductTrackingKeyInDataCarrier:NonBinaryLogicEnumeration[0..1]</p> <p><u>ProductRecallNotificationTradelItem</u> 1. Replace barCodeTypeCode:BarCodeTypeCode[0..*] with dataCarrierTypeCode:DataCarrierTypeCode[0..*] 2. Added all code values from BarCodeTypeCode into DataCarrierTypeCode and added RFID_EPC_TAG as a code value. 3. Deleted additionalTradelItemClassificationValue: string [0..1]={1..80} as it was a redundant element.</p> <p><u>Defined codes as datatypes.</u> tradelItemUnitDescriptorCode:TradelItemUnitDescriptorCode</p> <p><u>Product Recall Packaging Detail</u> Renamed and qualified datatype with a specific code designation packageTypeCode:PackageTypeCode[1..*] Qualified datatype with a specific code designation. packagingMaterialCode:MaterialTypeCode[1..*]</p> <p><u>Updated association from mandatory[1..1] to optional[0..1]</u> ProductRecallNotification TO ProductRecallNotificaitonDistributionDetails ProductRecallNotification TO ProductRecallNotificaitonMarketDetails</p> <p><u>ProductRecallCloseoutNotificationTradelItem</u> Deleted additionalTradelItemClassificationValue: string [0..1]={1..80} as it was a redundant element.</p> <p><u>ProductRemovalConfirmationTradelItem</u> Deleted additionalTradelItemClassificationValue as it was a redundant element.</p> <p>Corrected sample data 1 End Date: from 2001-07-23 TO 2011-07-23 productTrackingKeyValue: 2001-12-25 to 2011-12-25</p> <p>Corrected sample data 2 productTrackingKeyValue: 2001-12-25 to 2011-12-25</p>	0.0.4	Not Applicable