The Global Language of Business

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22-Jun-2018	GS1 France	WR 17-038
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Table of Contents

1 Business Domain View 8
1.1 Introduction 8
1.2 References 8

2 Business Context 8

3 Business Transaction View 8

4 Business Information View 9
4.1 Business Data Types 9
4.1.1 GDTI 9
4.1.2 Codes 10
4.1.3 Enumerations 27
4.2 Components 28
4.2.1 eCom GS1 Identification 28
4.2.2 Acceptable Over Allocation 31
4.2.3 Administrative Unit 32
4.2.4 Allowance Charge 33
4.2.5 Batch Number List 34
4.2.6 Carrier Pick Up Drop Off Details 36
4.2.7 Carrier Track And Trace Information 37
4.2.8 Child Package Level 38
4.2.9 Collaborative Trade Item 39
4.2.10 Consignment Reference 40
4.2.11 Dangerous Goods Attribute 40
4.2.12 Dangerous Goods Information 41
4.2.13 Dangerous Goods Regulation Information 42
4.2.14 Deliver Date Information 43
4.2.15 Delivery Terms 44
4.2.16 Despatch Information 46
4.2.17 Digital Signature 47
4.2.18 Duty Fee Tax Registration 47
4.2.19 Ecom Document 49
4.2.20 Ecom_Attribute Value Pair List 50
4.2.21 Ecom String Attribute Value Pair List 51
4.2.22 Ecom_Document Reference 52
4.2.23 End Customer Related Details 53
4.2.24 Eu Unique ID 54
4.2.25 ExtendedLogisticUnit 55
4.2.26 Energy Quantity Calculation Conditions 56
4.2.27 Financial Institution Information 57
4.2.28 Handling Instruction 58
4.2.29 Identity Document 59
4.2.30 Incident Circumstances 60
4.2.31 Incident Details 61
4.2.32 Ink Stain Details 62
4.2.33 Installment Due 63

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4.2.34 Inventory Duty Fee Tax Status 63
4.2.35 Inventory Status Quantity Specification 64
4.2.36 Inventory Sub Location 65
4.2.37 Invoice Document Reference 66
4.2.38 Legal Registration 67
4.2.39 Levied Duty Fee Tax 68
4.2.40 Location Information 70
4.2.41 Logistic Event 71
4.2.42 Logistic Location 72
4.2.43 Logistic Service 74
4.2.44 Logistic Service Reference 75
4.2.45 Logistic Unit 76
4.2.46 Logistic Unit Details 78
4.2.47 Logistic Unit Measurement 79
4.2.48 Logistic Units 80
4.2.49 Lot Number List 81
4.2.50 Lower Level Trade Item 82
4.2.51 Operating Hours 83
4.2.52 Order Logistical Date Information 84
4.2.53 Order Logistical Information 85
4.2.54 Organisation 87
4.2.55 Package Total 88
4.2.56 Packaging Marking 89
4.2.57 Party Reference 90
4.2.58 Passenger Information 91
4.2.59 Payment Method 92
4.2.60 Payment Terms 93
4.2.61 Payment Terms Discount 94
4.2.62 Person 95
4.2.63 Quantity Specification 96
4.2.64 Referenced Order 97
4.2.65 Reference Number 98
4.2.66 Returnable Packaging 99
4.2.67 Shipment Reference 100
4.2.68 Shipment Transportation Information 101
4.2.69 Source Reference 102
4.2.70 Structured Note 103
4.2.71 Special Operating Hours 104
4.2.72 Trade Statistic Classification 105
4.2.73 Transactional Generic Reference 106
4.2.74 Transactional Item Certification 107
4.2.75 Transactional Item Data 109
4.2.76 Transactional Item Data Carrier and Identification 112
4.2.77 Transactional Item Logistic Unit Information 113
4.2.78 Transactional Item Organic Information 114
4.2.79 Transactional Party 115
4.2.80 Transactional Party In Role 116
4.2.81 Transactional Reference 117
4.2.82 Transactional Trade Item 118

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4.2.83 Transport Cargo Characteristics 120
4.2.84 Transport Equipment 122
4.2.85 Transport Means 123
4.2.86 Transport Reference 124
4.2.87 Transport Seal 125
4.2.88 Transport Status 126
4.2.89 Transport Tracking Log Event 127
4.2.90 Transport Tracking Observation 128
4.2.91 Transport Tracking Sensor Observation 129
4.2.92 Unit Measurement 129
4.2.93 Waste Details 130
4.2.94 XHTML 131
4.3 Enumerations (message specific) 132
4.3.1 DebitCreditEnumeration 132
4.3.2 TransportPlanningDateTypeEnumeration 132
4.4 Code Lists 132

5 Business Message Examples 137

6 Implementation Considerations 137

7 Summary of Changes 137
7.1 BMS Release 3.0 137
7.2 BMS Release 3.1 138
7.3 BMS Release 3.2 140
7.4 BMS Release 3.3 147
7.5 BMS Release 3.4 161
7.6 BMS Release 3.5 165
7.7 BMS Release 3.5.1 166
7.8 BMS Release 3.6 166

8 Appendices 167

9 Acknowledgements 167
9.1.1 Work Group 167
9.1.2 Development Team Members 168

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1 Business Domain View

1.1 Introduction

Message Definition

This document defines components that are determined to be foundational to the eCom domain within GS1.

eCom components are used to enforce consistency across eCom messages and include:

- Transactional trade item details
- Transactional party details
- Logistic unit details
- Transport related information such as transport equipment, transport means.
- Financial information such as payment terms, financial accounts.

eCom components will be contained in a separate package and will be carefully managed to ensure that any changes that are made to any component do not have a negative impact across GS1 eCom messages.

1.2 References

Reference Name	Description
[BRAD RQ] BRAD Requirements Queue	GS1, 2011
[BRAD_TM] BRAD Transport Management	GS1, 2011
[BMS_SHARED] BMS Shared Common release 3.6	GS1, 2014
[BRAD_WIO] BRAD Warehousing Inbound and Outbound Processes	GS1, 2012

2 Business Context

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

3 Business Transaction View

Not applicable

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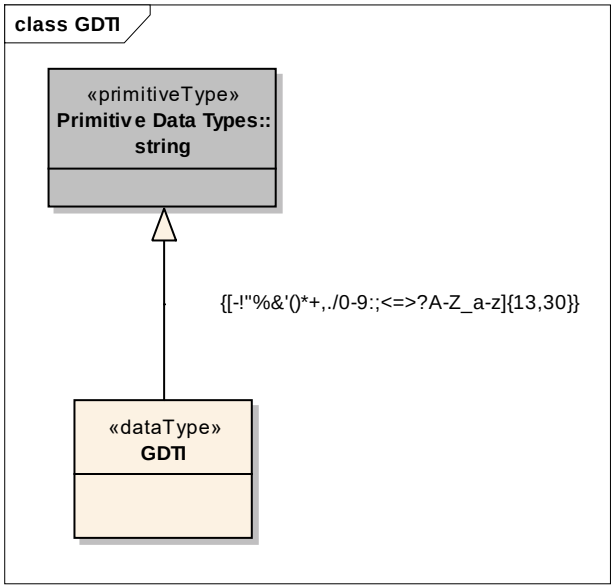
4 Business Information View

4.1 Business Data Types

4.1.1 GDTI

Class Diagram



GDD Report

The content of the GDTI class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bdtList.aspx?semanticURN=urn:gs1:gdd:bdt:GDTI

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Key	Pattern	Description
GDTI	[-!”%&’()*+,./0-9:;⇔?A-Z_a-z]{13,30}	Minimum 13, Maximum 30 alphanumeric characters restricted to A-Z (uppercase), a-z (lowercase), 0-9, and the special characters listed (e.g. %, &, etc..) Note 1

4.1.2 Codes

Class Diagram

Note: Please note that all codes in the diagrams below are generalizations of “GS1Code” as indicated by the text in italics at the top right hand side of the classes.

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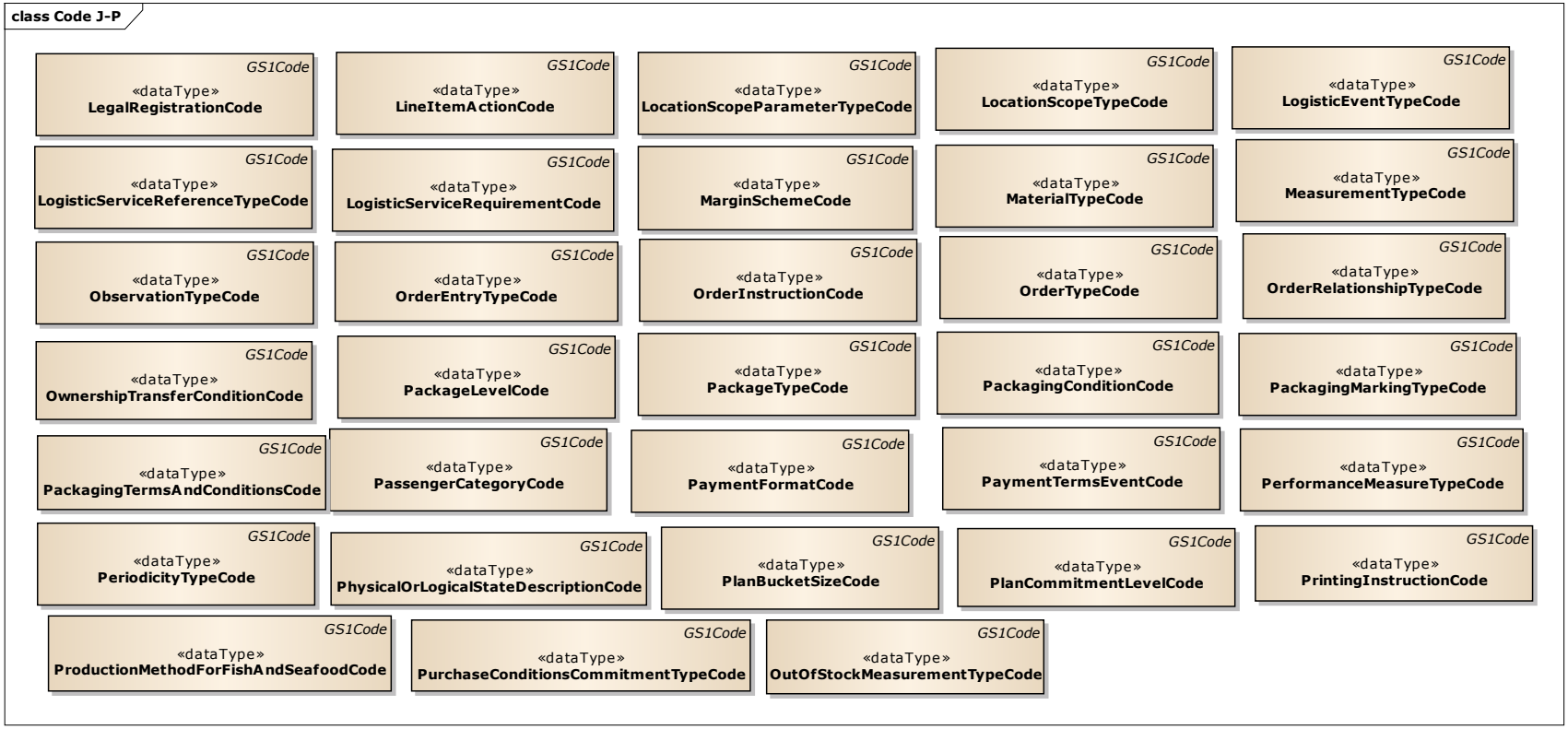

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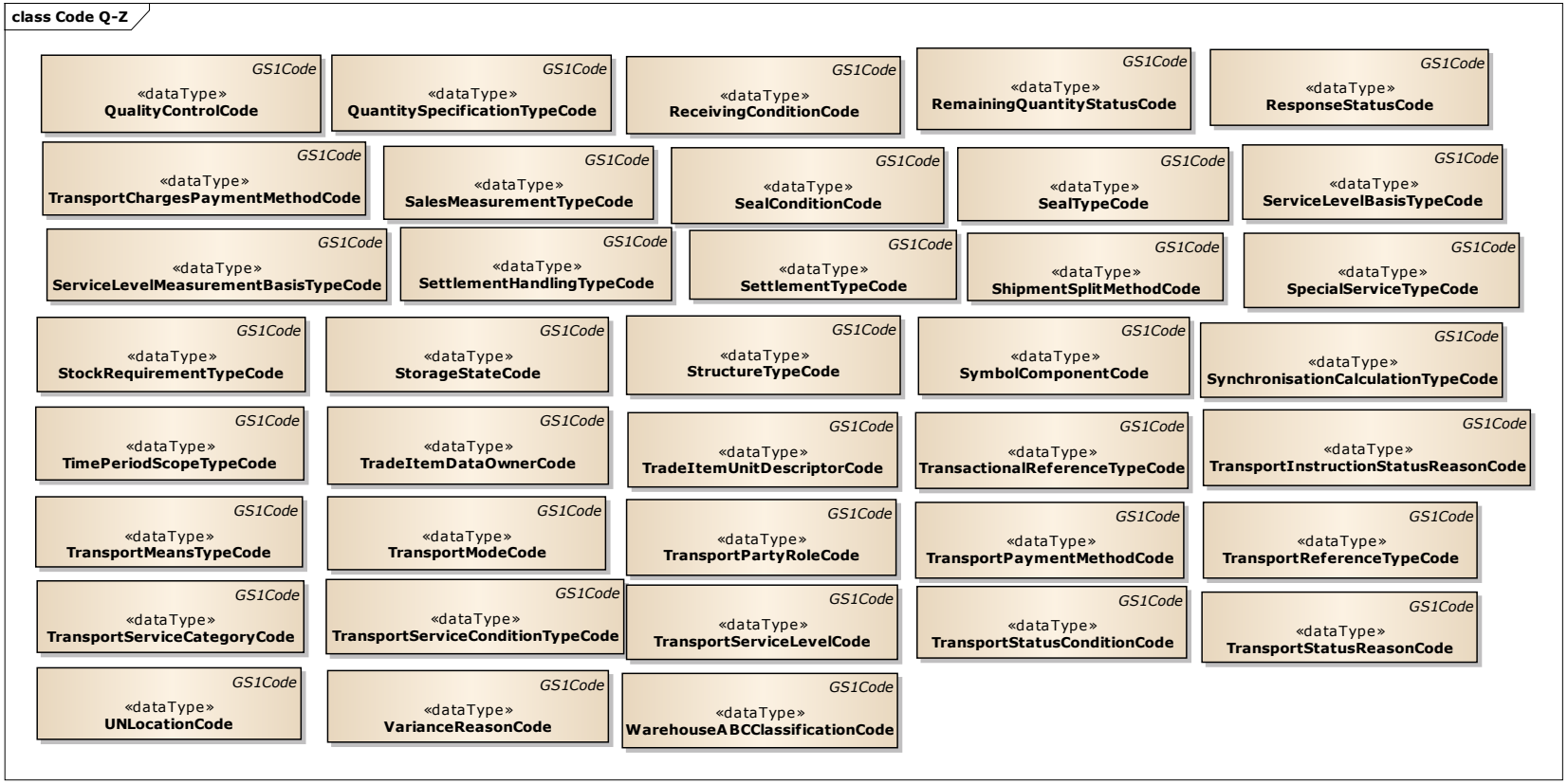

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GDD Report

Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
AdministrativeUnitTypeCode				Code specifying an administrative unit type. Allowed code values are specified in GS1 Code List *AdministrativeUnitTypeCode*.	
Generalization		GS1Code			
AppointmentTimeMeasurementBasisTypeCode				Code specifying an appointment time measurement basis type. Allowed code values are specified in GS1 Code List *AppointmentTimeMeasurementBasisTypeCode*	
Generalization		GS1Code			
AquaticSpeciesCode				A code specifying the scientific name of the fish species. Allowed code values are specified in GS1 Code List *AquaticSpeciesCode*	
Generalization		GS1Code			
CargoTypeCode				Code specifying a cargo type. Allowed code values are specified in GS1 Code List *CargoTypeCode*.	
Generalization		GS1Code			
CatchAreaCode				This is a code list developed and managed by FAO, fully adopted by GS1. Allowed code values are specified in *FAO code list*.	
Generalization		GS1Code			
CreditReasonCode				Code specifying a credit reason. Allowed code values are specified in GS1 Code List *CreditReasonCode*.	
Generalization		GS1Code			
CustomsWarehouseStatusCode				Code specifying a customs warehouse status. Allowed code values are specified in GS1 Code List *CustomsWarehouseStatusCode*.	
Generalization		GS1Code			
DangerousGoodsAttributeTypeCode				Code specifying a dangerous goods attribute type. Allowed code values are specified in GS1 Code List *DangerousGoodsAttributeTypeCode*.	
Generalization		GS1Code			

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Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
DangerousGoodsRegulationCode				Code specifying a dangerous goods regulation. Allowed code values are specified in GS1 Code List *DangerousGoodsRegulationCode*.	
Generalization		GS1Code			
DataCarrierTypeCode				Code specifying a data carrier type. Allowed code values are specified in GS1 Code List *DataCarrierTypeCode*.	
Generalization		GS1Code			
DeliverDateTypeCode				Code specifying a deliver date type. Allowed code values are specified in GS1 Code List *DeliverDateTypeCode*.	
Generalization		GS1Code			
DeliveryMethodCode				Code specifying a delivery time measurement basis type. Allowed code values are specified in GS1 Code List *DeliveryMethodCode*	
Generalization		GS1Code			
DeliveryTimeMeasurementBasisTypeCode				Code specifying a delivery time measurement basis type. Allowed code values are specified in GS1 Code List *DeliveryTimeMeasurementBasisTypeCode*.	
Generalization		GS1Code			
DeliveryTypeCode				Code specifying a delivery type. Allowed code values are specified in GS1 Code List *DeliveryTypeCode*.	
Generalization		GS1Code			
DemandEstimationTypeCode				Code specifying a demand estimation type. Allowed code values are specified in GS1 Code List *DemandEstimationTypeCode*.	
Generalization		GS1Code			
DespatchAdviceTypeCode				Code specifying a demand estimation type. Allowed code values are specified in GS1 Code List	
Generalization		GS1Code			

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Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
DiscountAgreementCode				Code specifying base for discount, fee reduction or bonus. Allowed code values are specified in GS1 Code List *DiscountAgreementCode*	
Generalization		GS1Code			
DutyFeeTaxExemptionReasonCode				Code specifying reason for being exempt of duty, fee or tax. Allowed code values are specified in GS1 Code List *DutyFeeTaxExemptionReasonCode*	
Generalization		GS1Code			
DutyFeeTaxTypeCode				Code specifying a type of duty, fee or tax. Allowed code values are specified in GS1 Code List *DutyFeeTaxTypeCode*.	
Generalization		GS1Code			
EffectiveDateTypeCode				Code specifying an effective date type. Allowed code values are specified in GS1 Code List *EffectiveDateTypeCode*.	
Generalization		GS1Code			
ErrorOrWarningCode				Code specifying an error or warning. Allowed code values are specified in GS1 Code List *ErrorOrWarningCode*.	
Generalization		GS1Code			
FinancialAdjustmentReasonCode				Code specifying a financial adjustment reason. Allowed code values are specified in GS1 Code List *DataSourceCode*.	
Generalization		GS1Code			
FishingGearTypeCode				This is a code list developed and managed by FAO, fully adopted by GS1. Allowed code values are specified in *FAO code list*.	
Generalization		GS1Code			
ForecastPurposeCode				Code specifying a forecast purpose. Allowed code values are specified in GS1 Code List *ForecastPurposeCode*.	
Generalization		GS1Code			

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Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
ForecastTypeCode				Code specifying a forecast type. Allowed code values are specified in GS1 Code List *ForecastTypeCode*.	
Generalization		GS1Code			
GS1ItemIdentificationKeyCode				Code specifying the type of GS1 Identification Key. Allowed code values are specified in GS1 Code List *GS1ItemIdentificationKeyCode*	
Generalization		GS1Code			
GoodsReceiptReportingCode				Code specifying a type of goods receipt reporting. Allowed code values are specified in GS1 Code List *GoodsReceiptReportingCode*.	
Generalization		GS1Code			
HandlingInstructionCode				Code specifying a handling instruction. Allowed code values are specified in GS1 Code List *HandlingInstructionCode*.	
Generalization		GS1Code			
HarmonizedSystemCode				Code specifying a commodity type. Allowed code values are specified by the World Customs Organization (WCO) in their HS Nomenclature.	
Generalization		GS1Code			
IdentityDocumentTypeCode				Code specifying an identity document type. Allowed code values are specified in GS1 Code List *IdentityDocumentTypeCode*.	
Generalization		GS1Code			
InventoryActivityTypeCode				Code specifying an inventory activity type. Allowed code values are specified in GS1 Code List *InventoryActivityTypeCode*.	
Generalization		GS1Code			
InventoryMeasurementBasisTypeCode				Code specifying an inventory measurement basis type. Allowed code values are specified in GS1 Code List *InventoryMeasurementBasisTypeCode*.	
Generalization		GS1Code			

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Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
InventoryMovementTypeCode				Code specifying an inventory movement type. Allowed code values are specified in GS1 Code List *InventoryMovementTypeCode*.	
Generalization		GS1Code			
InventoryStatusCode				Code specifying an inventory status. Allowed code values are specified in GS1 Code List *InventoryStatusCode*.	
Generalization		GS1Code			
InventorySubLocationFunctionCode				Code specifying an inventory sub-location function. Allowed code values are specified in GS1 Code List *InventorySubLocationFunctionCode*.	
Generalization		GS1Code			
InventorySubLocationTypeCode				Code specifying an inventory sub-location type. Allowed code values are specified in GS1 Code List *InventorySubLocationTypeCode*.	
Generalization		GS1Code			
InvoiceTypeCode				Code specifying an invoice type. Allowed code values are specified in GS1 Code List *InvoiceTypeCode*.	
Generalization		GS1Code			
ItemScopeTypeCode				Code specifying an item scope type. Allowed code values are specified in GS1 Code List *ItemScopeTypeCode*.	
Generalization		GS1Code			
ItemTypeCode				Code describing the trade item type. Allowed code values are specified in GS1 Code List *ItemTypeCode*.	
Generalization		GS1Code			
LegalRegistrationCode				Code specifying a type of legal registration. Allowed code values are specified in GS1 Code List *LegalRegistrationCode*.	
Generalization		GS1Code			

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Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
LineItemActionCode				Code specifying a line item action. Allowed code values are specified in GS1 Code List *LineItemActionCode*.	
Generalization		GS1Code			
LocationScopeParameterTypeCode				Code specifying a location scope parameter type. Allowed code values are specified in GS1 Code List *LocationParameterScopeTypeCode*.	
Generalization		GS1Code			
LocationScopeTypeCode				Code specifying a location scope type. Allowed code values are specified in GS1 Code List *LocationScopeTypeCode*.	
Generalization		GS1Code			
LogisticEventTypeCode				Code specifying a logistic event type. Allowed code values are specified in GS1 Code List *LogisticEventTypeCode*.	
Generalization		GS1Code			
LogisticServiceReferenceTypeCode				List of GS1 messages related to logistic services. Allowed code values are specified in GS1 Code List *LogisticServiceReferenceTypeCode*.	
Generalization		GS1Code			
LogisticServiceRequirementCode				Code specifying a logistic service requirement. Allowed code values are specified in GS1 Code List *LogisticServiceRequirementCode*.	
Generalization		GS1Code			
MarginSchemeCode				Code specifying a margin scheme. Allowed code values are specified in GS1 Code List *MarginSchemeCode*.	
Generalization		GS1Code			
MaterialTypeCode				Code specifying a type of material. Allowed code values are specified in GS1 Code List *MaterialTypeCode*.	
Generalization		GS1Code			

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Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
MeasurementTypeCode				Code specifying a type of measurement. Allowed code values are specified in GS1 Code List *MeasurementTypeCode*.	
Generalization		GS1Code			
ObservationTypeCode				Code specifying an observation type. Allowed code values are specified in GS1 Code List *ObservationTypeCode*.	
Generalization		GS1Code			
OrderEntryTypeCode				Code specifying the entry channel of customer orders. Allowed code values are specified in GS1 Code List *OrderEntryTypeCode*	
Generalization		GS1Code			
OrderInstructionCode				Code specifying an order instruction. Allowed code values are specified in GS1 Code List *OrderInstructionCode*.	
Generalization		GS1Code			
OrderRelationshipTypeCode				Code specifying relationship between related Purchase Order messages. Allowed code values are specified in GS1 Code List *OrderRelationshipTypeCode*	
Generalization		GS1Code			
OrderTypeCode				Code specifying an order type. Allowed code values are specified in GS1 Code List *OrderTypeCode*.	
Generalization		GS1Code			
OutOfStockMeasurementTypeCode				Code specifying an out of stock measurement type. Allowed code values are specified in GS1 Code List *OutOfStockMeasurementTypeCode*.	
Generalization		GS1Code			
OwnershipTransferConditionCode				Code specifying the condition for transfer of ownership of goods. Allowed code values are specified in GS1 Code List *OwnershipTransferConditionCode*	
Generalization		GS1Code			

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Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
PackageLevelCode				Code specifying a package level. Allowed code values are specified in GS1 Code List *PackageLevelCode*.	
Generalization		GS1Code			
PackageTypeCode				Code specifying a package type. Allowed code values are specified in UN/ECE Recommendation 21.	
Generalization		GS1Code			
PackagingConditionCode				Code specifying a packaging quality condition. Allowed code values are specified in GS1 Code List *PackagingConditionCode*.	
Generalization		GS1Code			
PackagingMarkingTypeCode				Code specifying an packaging marking type. Allowed code values are specified in GS1 Code List *PackagingMarkingTypeCode*.	
Generalization		GS1Code			
PackagingTermsCode				Code specifying the packaging terms and conditions. Allowed code values are specified in GS1 Code List *PackagingTermsCode*	
Generalization		GS1Code			
PassengerCategoryCode				Code specifying the role, function or other main characteristic categorizing the type of passenger. Allowed code values are specified in GS1 Code List *PassengerCategoryCode*.	
Generalization		GS1Code			
PaymentFormatCode				Code specifying a payment format. Allowed code values are specified in GS1 Code List *PaymentFormatCode*.	
Generalization		GS1Code			
PaymentTermsEventCode				Code specifying a payment terms event. Allowed code values are specified in GS1 Code List *PaymentTermsEventCode*.	
Generalization		GS1Code			

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Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
PerformanceMeasureTypeCode				Code specifying a performance measure type. Allowed code values are specified in GS1 Code List *PerformanceMeasureTypeCode*.	
Generalization		GS1Code			
PeriodicityTypeCode				Code specifying a periodicity type. Allowed code values are specified in GS1 Code List *PeriodicityTypeCode*.	
Generalization		GS1Code			
PlanBucketSizeCode				Code specifying a plan bucket size. Allowed code values are specified in GS1 Code List *PlanBucketSizeCode*.	
Generalization		GS1Code			
PlanCommitmentLevelCode				Code specifying a plan commitment level. Allowed code values are specified in GS1 Code List *PlanCommitmentLevelCode*.	
Generalization		GS1Code			
PrintingInstructionCode				Code specifying a printing instruction. Allowed code values are specified in GS1 Code List *PrintingInstructionCode*.	
Generalization		GS1Code			
ProductionMethodForFishAndSeafoodCode				A code specifying how the fish had been grown / cultivated. Allowed code values are specified in GS1 Code List *ProductionMethodForFishAndSeafoodCode*	
Generalization		GS1Code			
PurchaseConditionsCommitmentTypeCode				Code specifying a purchase conditions commitment type. Allowed code values are specified in GS1 Code List *PurchaseConditionsCommitmentTypeCode*.	
Generalization		GS1Code			
QualityControlCode				Code specifying a type of required quality control. Allowed code values are specified in GS1 Code List *QualityControlCode*.	
Generalization		GS1Code			

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Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
QuantitySpecificationTypeCode				Code specifying a quantity type. Allowed code values are specified in GS1 Code List *QuantitySpecificationTypeCode*.	
Generalization		GS1Code			
ReceivingConditionCode				Code specifying a receiving condition. Allowed code values are specified in GS1 Code List *ReceivingConditionCode*.	
Generalization		GS1Code			
ReferenceNumberTypeCode				Code specifying the type of the reference number. Allowed code values are specified in GS1 Code List *ReferenceNumberTypeCode*	
Generalization		GS1Code			
RemainingQuantityStatusCode				Code specifying a remaining quantity status. Allowed code values are specified in GS1 Code List *RemainingQuantityStatusCode*.	
Generalization		GS1Code			
ResponseStatusCode				Code specifying a response status. Allowed code values are specified in GS1 Code List *ResponseStatusCode*.	
Generalization		GS1Code			
SalesMeasurementTypeCode				Code specifying a sales measurement type code. Allowed code values are specified in GS1 Code List *SalesMeasurementTypeCode*.	
Generalization		GS1Code			
SealConditionCode				Code specifying a seal condition. Allowed code values are specified in GS1 Code List *SealConditionCode*.	
Generalization		GS1Code			
SealTypeCode				Code specifying a seal type. Allowed code values are specified in GS1 Code List *SealTypeCode*.	
Generalization		GS1Code			

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Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
ServiceLevelBasisTypeCode				Code specifying a service level basis type. Allowed code values are specified in GS1 Code List *ServiceLevelBasisTypeCode*.	
Generalization		GS1Code			
ServiceLevelMeasurementBasisTypeCode				Code specifying a service level measurement basis type. Allowed code values are specified in GS1 Code List *ServiceLevelMeasurementBasisTypeCode*.	
Generalization		GS1Code			
SettlementHandlingTypeCode				Code specifying a settlement handling type. Allowed code values are specified in GS1 Code List *SettlementHandlingTypeCode*.	
Generalization		GS1Code			
SettlementTypeCode				Code specifying a settlement type. Allowed code values are specified in GS1 Code List *SettlementTypeCode*.	
Generalization		GS1Code			
SpecialServiceTypeCode				Code specifying a special service. Allowed code values are specified in GS1 Code List *SpecialServiceTypeCode*.	
Generalization		GS1Code			
StockRequirementTypeCode				Code specifying a stock requirement type. Allowed code values are specified in GS1 Code List *StockRequirementTypeCode*.	
Generalization		GS1Code			
StructureTypeCode				Code specifying a structure type. Allowed code values are specified in GS1 Code List *StructureTypeCode*.	
Generalization		GS1Code			
SymbolComponentCode				Code specifying a symbol component. Allowed code values are specified in GS1 Code List *SymbolComponentCode*.	
Generalization		GS1Code			

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Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
SynchronisationCalculationTypeCode				Code specifying a synchronisation calculation type. Allowed code values are specified in GS1 Code List *SynchronisationCalculationTypeCode*.	
Generalization		GS1Code			
TimePeriodScopeTypeCode				Code specifying a time period scope type. Allowed code values are specified in GS1 Code List *TimePeriodScopeTypeCode*.	
Generalization		GS1Code			
TradeItemDataOwnerCode				The code indicating who owns the set of trade item transactional data. Allowed code values are specified in GS1 Code List *TradeItemDataOwnerCode*	
Generalization		GS1Code			
TradeItemUnitDescriptorCode				Code specifying a trade item unit. Allowed code values are specified in GS1 Code List *TradeItemUnitDescriptorCode*.	
Generalization		GS1Code			
TransactionalReferenceTypeCode				Code specifying a transactional reference type. Allowed code values are specified in GS1 Code List *TransactionalReferenceTypeCode*.	
Generalization		GS1Code			
TransportChargesPaymentMethodCode				Code specifying the payment method for transport charges. Allowed code values are specified in GS1 Code List *TransportChargesPaymentMethodCode*	
Generalization		GS1Code			
TransportInstructionStatusReasonCode				Code specifying a transport instruction status reason. Allowed code values are specified in GS1 Code List *TransportInstructionStatusReasonCode*.	
Generalization		GS1Code			
TransportMeansTypeCode				Code specifying a transport means type. Allowed code values are specified in GS1 Code List *TransportMeansTypeCode*.	

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Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
Generalization		GS1Code			
TransportModeCode				Code specifying a transport mode. Allowed code values are specified in GS1 Code List *TransportModeCode*.	
Generalization		GS1Code			
TransportPartyRoleCode				Code specifying a transport party role. Allowed code values are specified in GS1 Code List *TransportPartyRoleCode*.	
Generalization		GS1Code			
TransportPaymentMethodCode				Code specifying a transport payment method. Allowed code values are specified in GS1 Code List *TransportPaymentMethodCode*.	
Generalization		GS1Code			
TransportReferenceTypeCode				Code specifying a transport reference type. Allowed code values are specified in GS1 Code List *TransportReferenceTypeCode*.	
Generalization		GS1Code			
TransportServiceCategoryCode				Code specifying a transport service category. Allowed code values are specified in GS1 Code List *TransportServiceCategoryCode*.	
Generalization		GS1Code			
TransportServiceConditionTypeCode				Code specifying a transport service condition. Allowed code values are specified in GS1 Code List *TransportServiceConditionCode*.	
Generalization		GS1Code			
TransportServiceLevelCode				Code specifying a transport service level. Allowed code values are specified in GS1 Code List *TransportServiceLevelCode*.	
Generalization		GS1Code			
TransportStatusConditionCode				Code specifying a transport status condition. Allowed code values are specified in GS1 Code List *TransportStatusConditionCode*.	
Generalization		GS1Code			

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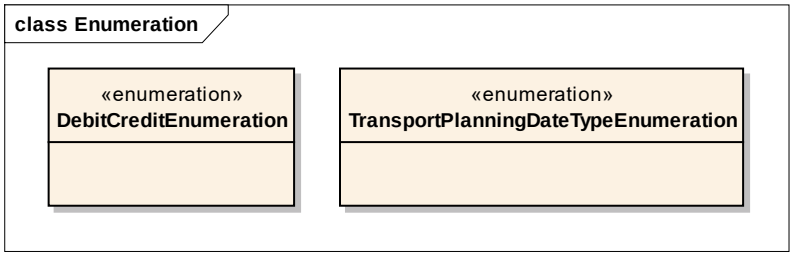
Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
TransportStatusReasonCode				Code specifying a transport status reason. Allowed code values are specified in GS1 Code List *TransportStatusReasonCode*.	
Generalization		GS1Code			
UNLocationCode				Code specifying a location used in trade or transport. Allowed code values are specified in the United Nations Code for Trade and Transport Locations (UN/LOCODE).	
Generalization		GS1Code			
VarianceReasonCode				Code specifying a variance reason. Allowed code values are specified in GS1 Code List *VarianceReasonCode*.	
Generalization		GS1Code			
WarehouseABCClassificationCode				Code specifying a Warehouse Classification category. Allowed code values are specified in GS1 Code List *WarehouseABCClassificationCode*.	
Generalization		GS1Code			

4.1.3 Enumerations

Class Diagram



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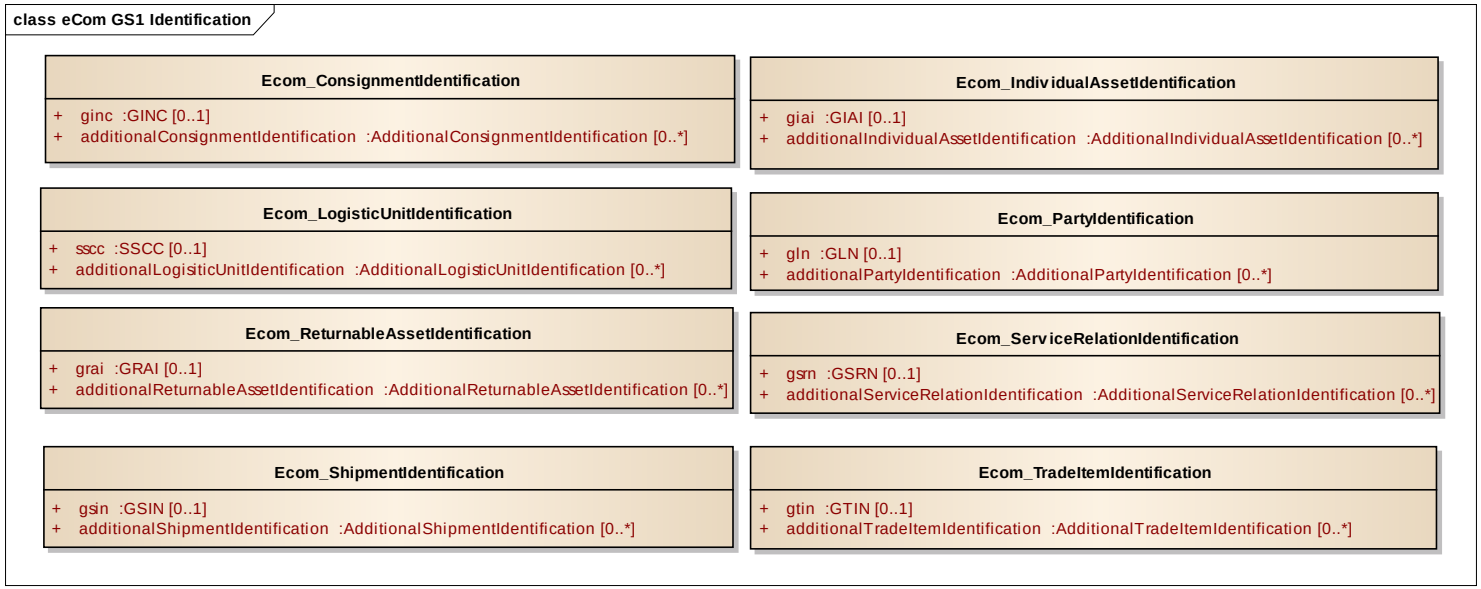
4.2 Components

4.2.1 eCom GS1 Identification

Class Diagram



GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Ecom_ConsignmentIdentification				Information used to identify a consignment.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	ginc	GINC	0..1	Global Identification Number for Consignment (GINC), the GS1 key used for the identification of consignments.	
Attribute	additionalConsignmentIdentification	AdditionalConsignmentIdentification	0..*	Additional identification key used to identify a consignment.	
Ecom_EntityIdentification					
Association	contentOwner	Ecom_PartyIdentification	0..1	Uniquely identifies the creator of the instance document.	
Attribute	entityIdentification	string	1..1	The unique identifier of the piece of information, such as the object identifier or the document identifier.	
Ecom_IndividualAssetIdentification				Information used to identify an asset.	
Attribute	giai	GIAI	0..1	Global Individual Asset Identifier (GIAI), the GS1 key used for the identification of individual assets.	
Attribute	additionalIndividualAssetIdentification	AdditionalIndividualAssetIdentification	0..*	Identifier of the asset, specified in addition to the GIAI.	
Ecom_LogisticUnitIdentification				The globally unique identification attached to a shipping container or shipping package and used for logistical and traceability purposes.	
Attribute	sscc	SSCC	0..1	Serial Shipping Container Code (SSCC), the GS1 key used for the identification of logistic units.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	additionalLogisiticUnitIdentification	AdditionalLogisticUnitIdentification	0..*	Additional (non-SSCC) identification attached to a shipping container or shipping package and used for logistical and traceability purposes.	
Ecom_PartyIdentification					
Attribute	gln	GLN	0..1	Global Location Number (GLN), the GS1 key used for the identification of parties and locations.	
Attribute	additionalPartyIdentification	AdditionalPartyIdentification	0..*	Identifier of the party or location, specified in addition to the GLN.	
Ecom_ReturnableAssetIdentification				Information used to identify a returnable asset.	
Attribute	grai	GRAI	0..1	Global Returnable Asset Identifier (GRAI), the GS1 key used for the identification of returnable assets.	
Attribute	additionalReturnableAssetIdentification	AdditionalReturnableAssetIdentification	0..*	The additional identification Key used to identify returnable assets.	
Ecom_ServiceRelationIdentification				Information used to identify a service relation.	
Attribute	gsrn	GSRN	0..1	Global Service Relation Number (GSRN), the GS1 key used for the identification of relationships between service providers and service recipients.	
Attribute	additionalServiceRelationIdentification	AdditionalServiceRelationIdentification	0..*	The additional key used to identify the relationship between a service provider and service recipient.	
Ecom_ShipmentIdentification				Information used to identify a shipment.	

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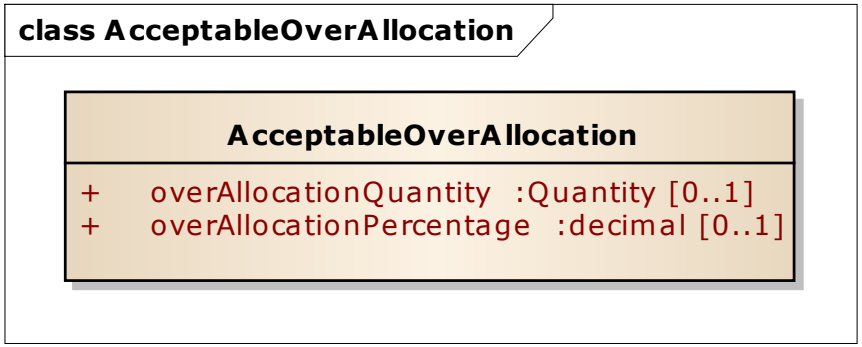
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	gsin	GSIN	0..1	Global Shipment Identification Number (GSIN), the GS1 key used for the identification of shipments.	
Attribute	additionalShipmentIdentification	AdditionalShipmentIdentification	0..*	Additional identification key used to identify a shipment.	
Ecom_TradeItemIdentification					
Attribute	gtin	GTIN	0..1	Global Trade Item Number (GTIN), the GS1 key used for the identification of trade items.	
Attribute	additionalTradeItemIdentification	AdditionalTradeItemIdentification	0..*	Alternative means to the Global Trade Item Number to identify a trade item.	

4.2.2 Acceptable Over Allocation

Class Diagram



GDD Report

The content of the: AcceptableOverAllocation class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:AcceptableOverAllocation*

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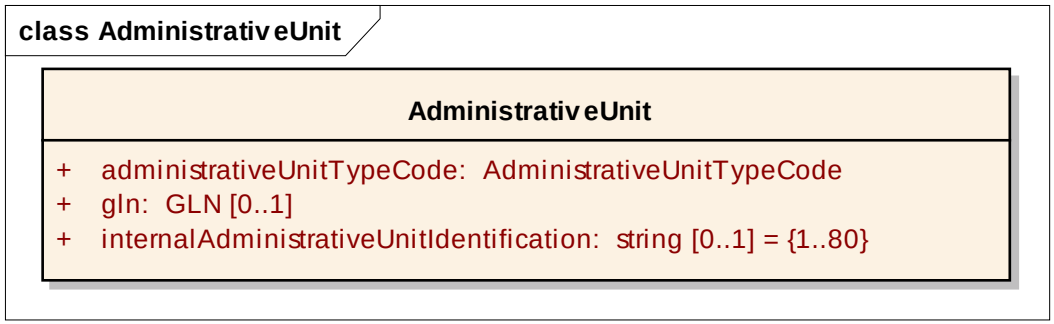
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AcceptableOverAllocation				Quantity or percentage of items that can be rounded up (over allocated) for practical purpose, e.g. customer ordered 7 items, but receives the package of 8. Acceptable over allocation can be expressed as quantity or percentage of the originally ordered quantity.	WR 17-000311 – 17-000317
Attribute	overAllocationQuantity	Quantity	0..1	Acceptable quantity that can be over allocated for the given order.	
Attribute	overAllocationPercentage	Percentage	0..1		

4.2.3 Administrative Unit

Class Diagram



GDD Report

The content of the: AdministrativeUnit class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:AdministrativeUnit*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AdministrativeUnit				An organizational grouping used for internal planning, control and accounting purposes.	

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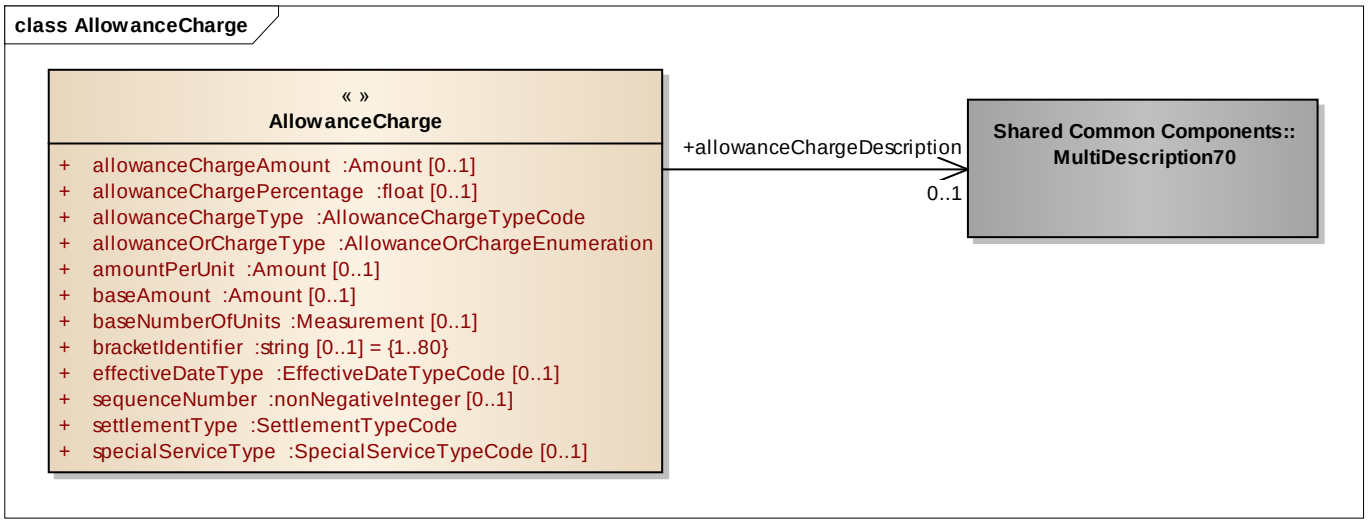
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	administrativeUnitTypeCode	AdministrativeUnitTypeCode	1..1	Code specifying the type of this administrative unit.	
Attribute	gln	GLN	0..1	The Global Location Number (GLN) identifying this administrative unit.	
Attribute	internalAdministrativeUnitIdentification	string	0..1	Internal identifier of this administrative unit.	

4.2.4 Allowance Charge

Class Diagram



GDD Report

The content of the: AllowanceCharge class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:AllowanceCharge*

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AllowanceCharge				Specifies allowances and charges specified to either the entire message or to individual line items contained in the message.	
Association	allowanceChargeDescription	MultiDescription70	0..1	A text explanation of the allowance or charge.	
Attribute	allowanceChargeAmount	Amount	0..1	Amount of allowance or charge applicable.	
Attribute	allowanceChargePercentage	float	0..1	Allowance and charges can be expressed in different ways. By using percentage, they are expressed as a percentage of another amount, e.g. the base amount.	
Attribute	allowanceChargeType	AllowanceChargeTypeCode	1..1	The identification of an allowance charge selected from a predefined list.	
Attribute	allowanceOrChargeType	AllowanceOrChargeEnumeration	1..1	Code specifying whether this is an allowance or a charge.	
Attribute	amountPerUnit	Amount	0..1	Allowance/charge per unit expressed as an amount.	
Attribute	baseAmount	Amount	0..1	The amount on which the calculation of the allowance or charge is based.	
Attribute	baseNumberOfUnits	Measurement	0..1	Number of units on which the allowance or charge is based.	
Attribute	bracketIdentifier	string	0..1	Identification of the conditions that apply to the allowance or charge.	
Attribute	effectiveDateType	EffectiveDateTypeCode	0..1	Code specifying the type of date that effectuates the allowance or charge.	
Attribute	sequenceNumber	nonNegativeInteger	0..1	A number used to indicate the order in which the allowances or charges are to be calculated.	
Attribute	settlementType	SettlementTypeCode	1..1	Code specifying the type of settlement for the allowance or charge.	
Attribute	specialServiceType	SpecialServiceTypeCode	0..1	Code specifying a special service	

4.2.5 Batch Number List

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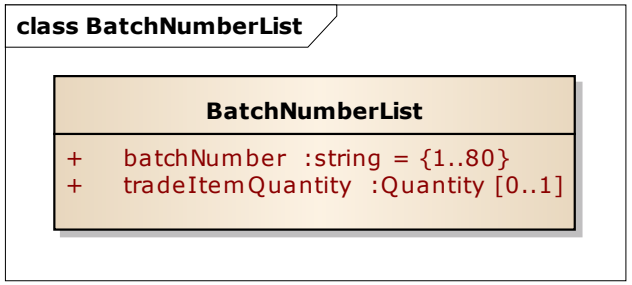
Class Diagram



GDD Report

The content of the: BatchNumberList class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:BatchNumberList*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
BatchNumberList				Provides list of Batch Numbers of Trade Items contained in a Logistic Unit.	17-000142
Attribute	batchNumber	String {1..80}	1..1	A batch unites products or items that have undergone or are grouped together to undergo the same transformation process, not necessarily a production process.	
Attribute	tradeItemQuantity	Quantity	0..1	The quantity of Trade Items sharing the same Batch Number.	

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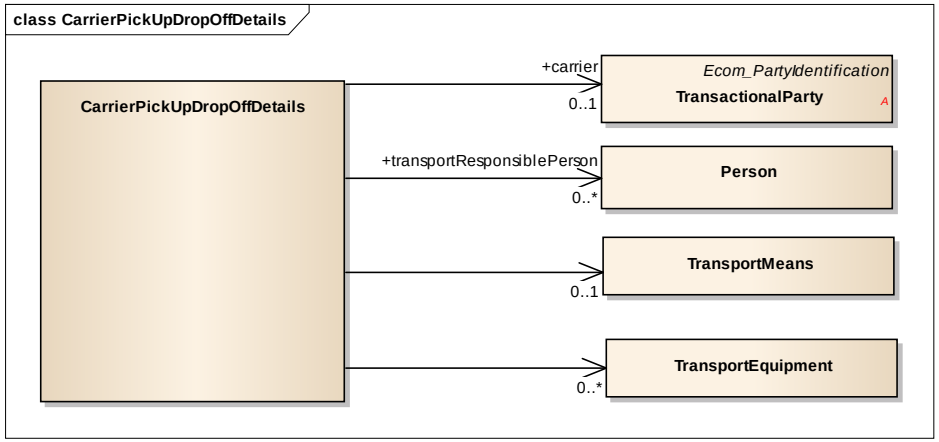
4.2.6 Carrier Pick Up Drop Off Details

Class Diagram



GDD Report

The content of the: CarrierPickUpDropOffDetails class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:CarrierPickUpDropOffDetails*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
CarrierPickUpDropOffDetails				Information on the logistic service provider, the personnel, and the transport means and equipment that will be used to collect or deliver goods.	
Association	carrier	TransactionalParty	0..1	The party that will collect, transport and deliver the goods.	
Association		TransportMeans	0..1	Details on the transport means used for the transport.	
Association		TransportEquipment	0..*	Details on the transport equipment used for the transport.	
Association	transportResponsiblePerson	Person	0..*	The person responsible for the execution of this pick-up or drop-off, for example the driver.	

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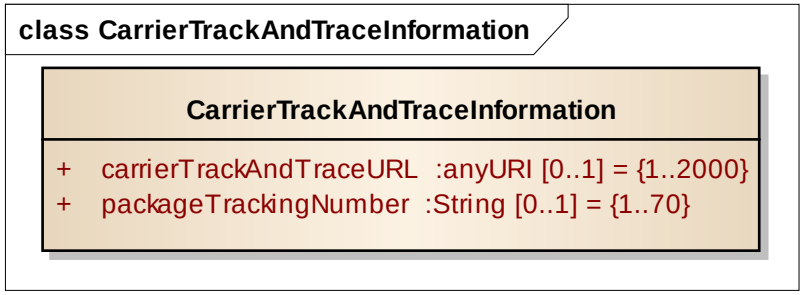
4.2.7 Carrier Track And Trace Information

Class Diagram



GDD Report

The content of the: CarrierTrackAndTraceInformation class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:CarrierTrackAndTraceInformation

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
CarrierTrackAndTraceInformation				Tracking and tracing information about the package, provided by the carrier.	
Attribute	carrierTrackAndTraceURL	anyURI	0..1	A URL where the carrier provides the tracking and tracing information about the package	
Attribute	packageTrackingNumber	String	0..1	A unique package tracking number assigned by the carrier	

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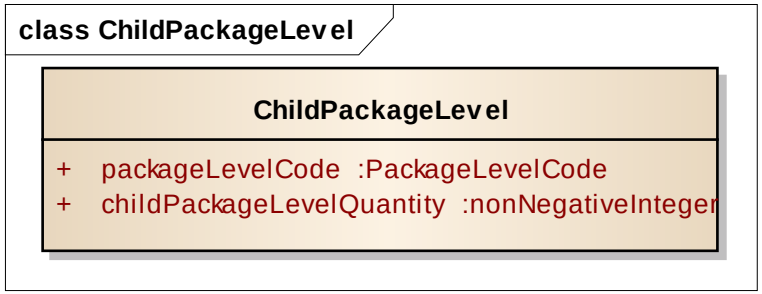
4.2.8 Child Package Level

Class Diagram



GDD Report

The content of the: ChildPackageLevel class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ChildPackageLevel*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ChildPackageLevel				Information about the hierarchical level and quantity of packaging.	
Attribute	packageLevelCode	PackageLevelCode	1..1	Code specifying the hierarchical level of packaging	
Attribute	childPackageLevelQuantity	nonNegativeInteger	1..1	The number of unique trade items of the level specified in the package level code contained in this trade item	

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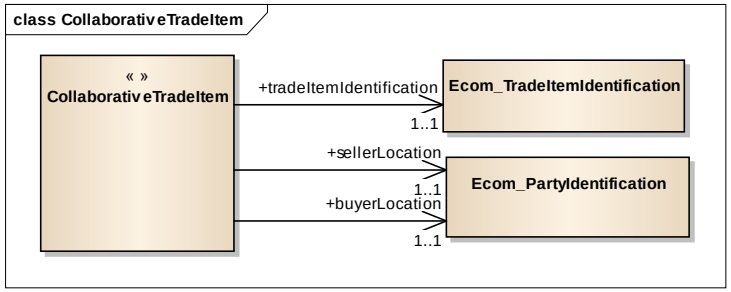
4.2.9 Collaborative Trade Item

Class Diagram



GDD Report

The content of the: CollaborativeTradeItem class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:CollaborativeTradeItem*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
CollaborativeTradeItem				Collaborative Trade Item identifies the product with the buyer and seller locations.	
Association	tradeItemIdentification	Ecom_TradeItemIdentification	1..1	Provides the GTIN as the unique identifier for the item and optionally additional formats of non GTIN identifiers for the item.	
Association	buyerLocation	Ecom_PartyIdentification	1..1	The identification of the buyer location for this collaborative trade item.	
Association	sellerLocation	Ecom_PartyIdentification	1..1	The identification of the seller location for this collaborative trade item.	

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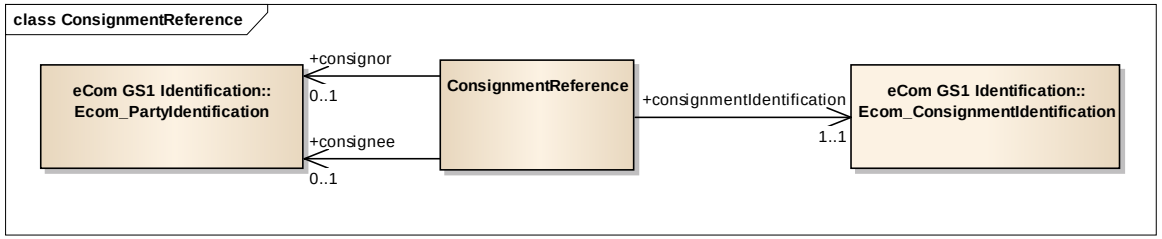
4.2.10 Consignment Reference

Class Diagram



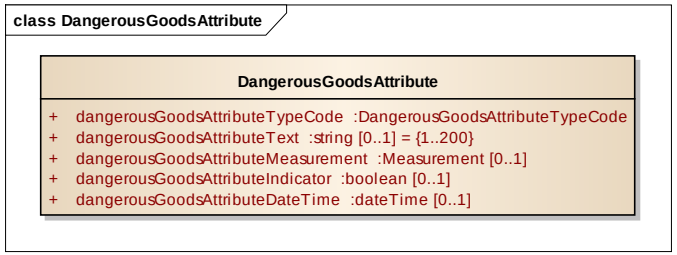
GDD Report

The content of the: ConsignmentReference class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ConsignmentReference*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ConsignmentReference				Reference to consignment information	
Association	consignmentIdentification	Ecom_ConsignmentIdentification	1..1	Information used to identify a consignment	
Association	consignor	Ecom_PartyIdentification	0..1	The party despatching a consignment of goods	
Association	consignee	Ecom_PartyIdentification	0..1	The party receiving a consignment of goods	

4.2.11 Dangerous Goods Attribute

Class Diagram



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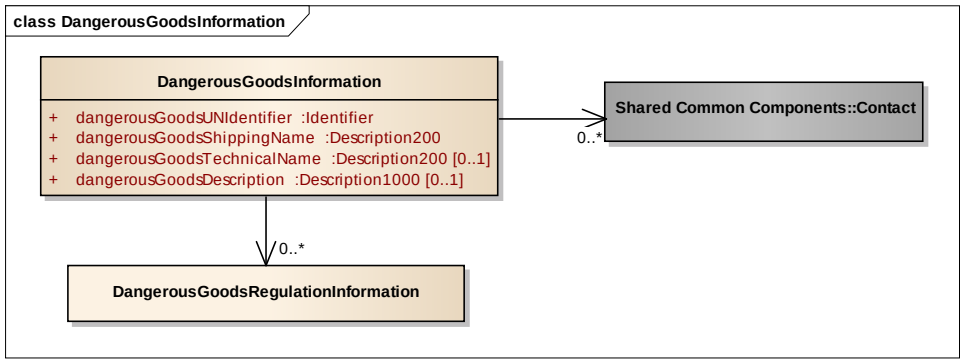
The content of the: DangerousGoodsAttribute class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:DangerousGoodsAttribute*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DangerousGoods Attribute				Hazardous instructions attribute details specific to a particular dangerous goods regulation.	
Attribute	dangerousGoodsAttributeTypeCode	DangerousGoodsAttributeTypeCode	1..1	Code specifying the type of dangerous goods attribute.	
Attribute	dangerousGoodsAttributeText	string	0..1	Textual value of the dangerous goods attribute.	
Attribute	dangerousGoodsAttributeMeasurement	Measurement	0..1	Measurement value of the dangerous goods attribute.	
Attribute	dangerousGoodsAttributeIndicator	boolean	0..1	Boolean value of the dangerous goods attribute.	
Attribute	dangerousGoodsAttributeDateTime	dateTime	0..1	Date time value of the dangerous goods attribute.	

4.2.12 Dangerous Goods Information

Class Diagram



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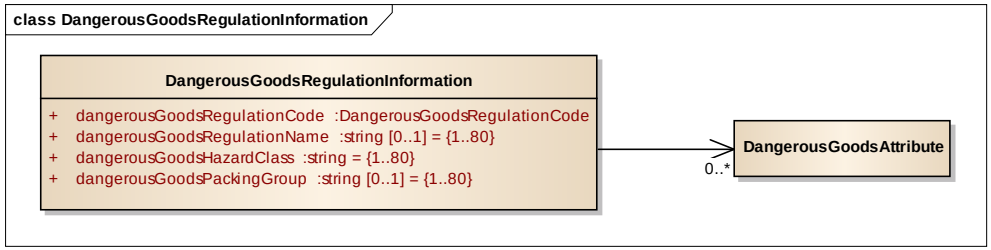
GDD Report

The content of the: DangerousGoodsInformation class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:DangerousGoodsInformation*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DangerousGoodsInformation				Hazardous instructions applicable to delivered goods, such as where or how specified packages or containers are to be handled because of restriction from dangerous goods.	
Association		DangerousGoodsRegulationInformation	0..*	Hazardous instructions applicable to delivered goods according to a particular dangerous goods regulation.	
Association		Contact	0..*	A contact in relation to the handling of hazardous materials.	
Attribute	dangerousGoodsUNIdentifier	Identifier	1..1	Number to identify hazardous substances or articles, as defined by United Nations Committee of Experts on the Transport of Dangerous Goods.	
Attribute	dangerousGoodsShippingName	Description200	1..1	Shipping name of the trade item (dangerous goods). Regulations provide a list of all acceptable proper shipping names.	
Attribute	dangerousGoodsTechnicalName	Description200	0..1	A technical name provided for a hazardous good by an organisation or regulation.	
Attribute	dangerousGoodsDescription	Description1000	0..1	Description of the hazardous materials.	

4.2.13 Dangerous Goods Regulation Information

Class Diagram



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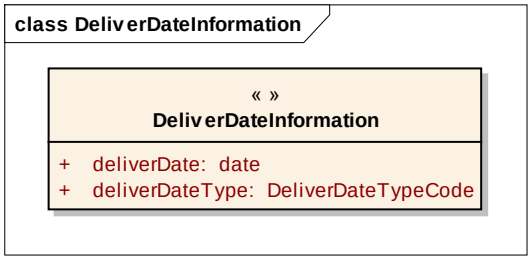
GDD Report

The content of the: DangerousGoodsRegulationInformation class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:DangerousGoodsRegulationInformation

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DangerousGoodsRegulationInformation				Hazardous instructions applicable to delivered goods according to a particular dangerous goods regulation.	
Association		DangerousGoodsAttribute	0..*	Hazardous instructions attribute details specific to a particular dangerous goods regulation.	
Attribute	dangerousGoodsRegulationCode	DangerousGoodsRegulationCode	1..1	An indication of the classification system(s) of dangerous goods and/or the Agency(ies) responsible for it.	
Attribute	dangerousGoodsRegulationName	string	0..1	Information specific to variable weight or dimension trade items.	
Attribute	dangerousGoodsHazardClass	string	1..1	The name of the class within the classification of hazardous materials for example Class A.	
Attribute	dangerousGoodsPackingGroup	string	0..1	Identifies the degree of risk these dangerous goods present during transport according to the specified regulation.	

4.2.14 Deliver Date Information

Class Diagram



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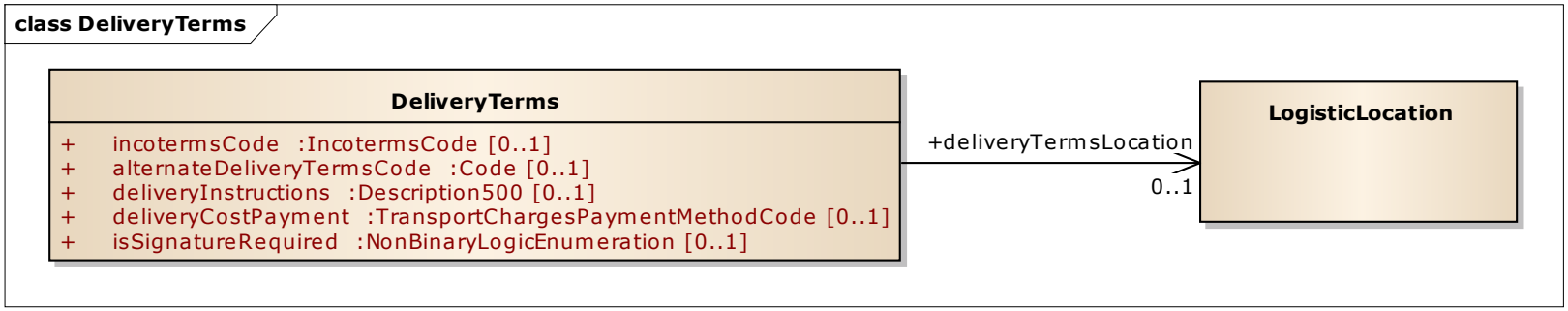
GDD Report

The content of the: DeliverDateInformation class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:DeliverDateInformation*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DeliverDateInformation				Provides the date information for the shipment.	
Attribute	deliverDate	date	1..1	The date on which the shipment is delivered.	
Attribute	deliverDateType	DeliverDateTypeCode	1..1	A code identifying the type of date on which goods or services will or have been delivered.	

4.2.15 Delivery Terms

Class Diagram



GDD Report

The content of the: DeliveryTerms class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:DeliveryTerms*

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DeliveryTerms				The applicable legal, customs, financial and insurance terms that have been agreed for a goods delivery.	
Association	deliveryTermsLocation	LogisticLocation	0..1	Location that is applicable to these delivery terms, such as the Free On Board (FOB) destination location.	
Attribute	incotermsCode	IncotermsCode	0..1	Code specifying the incoterms. Incoterms is an abbreviation for International Commercial Terms. The International Chamber of Commerce manages the Incoterms codes and their definitions.	
Attribute	alternateDeliveryTermsCode	Code	0..1	Code specifying the delivery terms according to a system other than the Incoterms.	
Attribute	deliveryCostPayment	TransportChargesPaymentMethodCode	0..1	Specifies who will pay transport cost.	
Attribute	deliveryInstructions	Description500	0..1	Instructions on the final delivery of the goods.	
Attribute	isSignatureRequired	NonBinaryLogicEnumeration	0..1	Specifies whether the Buyer has to sign the Proof Of Delivery document upon order delivery.	WR 17-000311 – 17-000317

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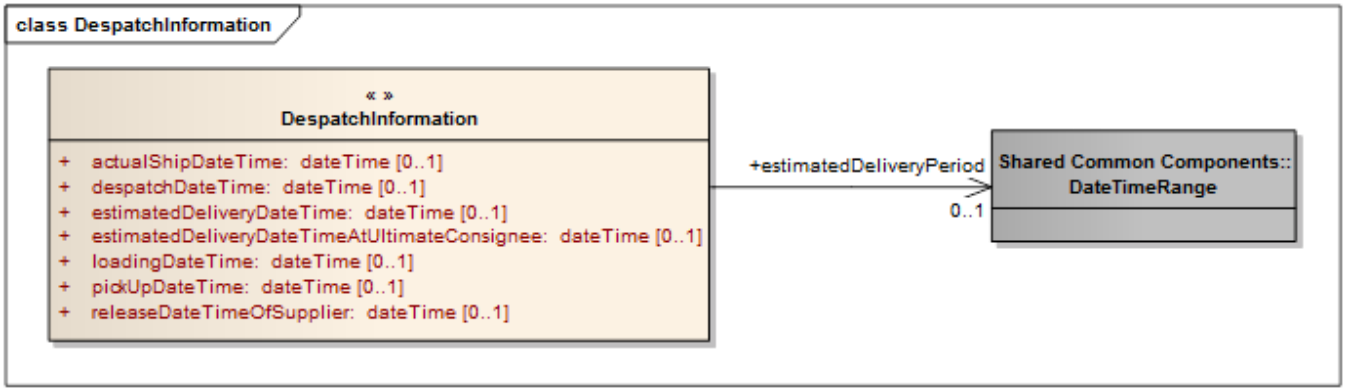
4.2.16 Despatch Information

Class Diagram



GDD Report

The content of the: DespatchInformation class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:DespatchInformation*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DespatchInformation				Information with regards to the despatching or shipping of goods.	
Association	estimatedDeliveryPeriod	DateTimeRange	0..1	Date time range in which the goods are expected to be delivered.	
Attribute	actualShipDateTime	dateTime	0..1	The date and time the goods were shipped.	
Attribute	despatchDateTime	dateTime	0..1	Date/time on which the goods are or are expected to be despatched or shipped.	
Attribute	estimatedDeliveryDateTime	dateTime	0..1	The estimated date and time of delivery.	
Attribute	estimatedDeliveryDateTimeAtUltimateConsignee	dateTime	0..1	The estimated date and time of delivery at the ultimate consignee	
Attribute	loadingDateTime	dateTime	0..1	The date and time when the goods are loaded for transport.	
Attribute	pickUpDateTime	dateTime	0..1	Date/time at which the cargo is picked up.	

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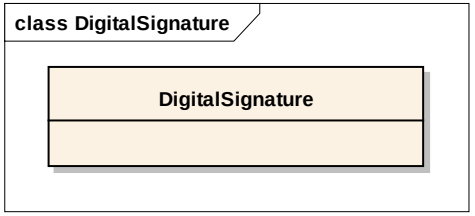
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	releaseDateTimeOfSupplier	dateTime	0..1	Date/Time when the supplier released the goods.	

4.2.17 Digital Signature

Class Diagram



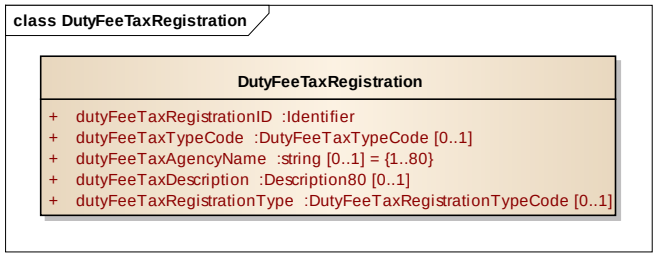
GDD Report

The content of the: DigitalSignature class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:DigitalSignature*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DigitalSignature				Encrypted data used to electronically sign a document.	

4.2.18 Duty Fee Tax Registration

Class Diagram



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GDD Report

The content of the: DutyFeeTaxRegistration class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:DutyFeeTaxRegistration*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DutyFeeTaxRegistration				The party registration details for a particular duty, tax or fee.	
Attribute	dutyFeeTaxRegistrationID	Identifier	1..1	Identifier of the party for this particular duty, fee or tax.	
Attribute	dutyFeeTaxTypeCode	DutyFeeTaxTypeCode	1..1	Code specifying the type of duty, fee or tax.	WR 16-000035
Attribute	dutyFeeTaxAgencyName	string	0..1	Agency responsible for the collection of this duty, fee or tax.	
Attribute	dutyFeeTaxDescription	Description80	0..1	Textual description of this duty, fee or tax.	
Attribute	dutyFeeTaxRegistrationType	DutyFeeTaxRegistrationTypeCode	0..1	Specifies type of tax registration number assigned by national fiscal authorities. Allowed values come from DutyFeeTaxRegistrationTypeCode list.	WR 16-000035

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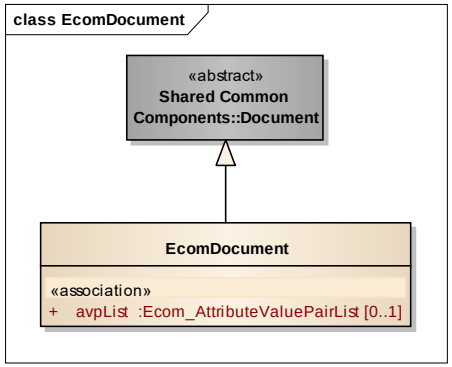
4.2.19 Ecom Document

Class Diagram



GDD Report

The content of the: EcomDocument class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:EcomDocument

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
EcomDocument				Used to specify basic information about the content of the message including version number, creation date and time and AVP placeholder.	
Generalisation		Document			
Association	avpList	Ecom_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.	WR 14-000110

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4.2.20 Ecom_Attribute Value Pair List

Class Diagram

GDD Report

The content of the: Ecom_AttributeValuePairList class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:Ecom_AttributeValuePairList*

Content	Attribute/Role	Datatype/Secondaryclass	Multiplicity	Definition	Requirements
Ecom_AttributeValuePairList				The placeholder for non-standard data.	WR 14-000110
Attribute	EcomStringAttributeValuePairList	EcomStringAttributeValuePairList	0..*	An attribute value pair that allows for a string and optionally an associated qualifier (e.g. Unit of Measure).	

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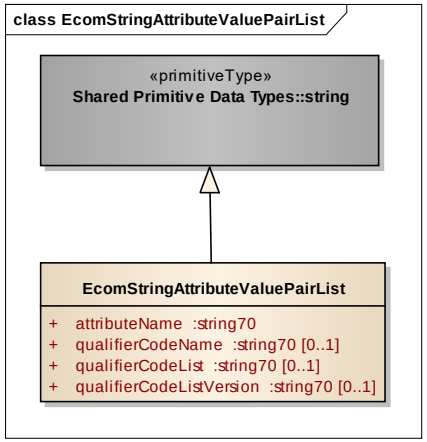
4.2.21 Ecom String Attribute Value Pair List

Class Diagram



GDD Report

The content of the: EcomStringAttributeValuePairList class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:EcomStringAttributeValuePairList

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
EcomStringAttributeValuePairList					
Generalization		string			
Attribute	attributeName	string70	1..1	The name of the temporary attribute being introduced as an attribute value pair.	
Attribute	qualifierCodeName	string70	0..1	The value of the attribute qualifier associated with the codeListName	
Attribute	qualifierCodeList	string70	0..1	The code list qualifying the temporary attribute	
Attribute	qualifierCodeListVersion	string70	0..1	The version of the code list qualifying the temporary attribute.	

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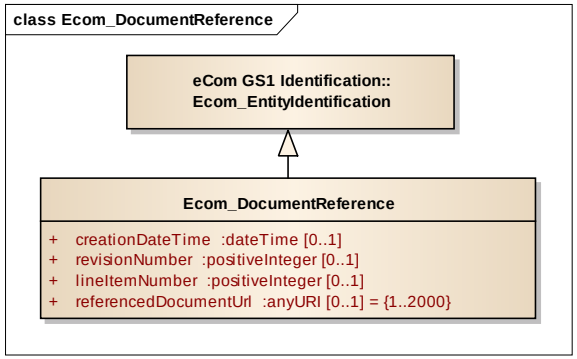
4.2.22 Ecom_Document Reference

Class Diagram



GDD Report

The content of the: Ecom_DocumentReference class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:Ecom_DocumentReference

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Ecom_DocumentReference				Information identifying a document and potentially a line within the document for referencing purposes.	
Generalization	Ecom_EntityIdentification				
Attribute	creationDateTime	dateTime	0..1	Date and time of creation of the referenced document.	
Attribute	revisionNumber	positiveInteger	0..1	Number to be used for identification and referencing of subsequent updates to a business document.	
Attribute	lineItemNumber	positiveInteger	0..1	Number specifying a line in the referenced document.	

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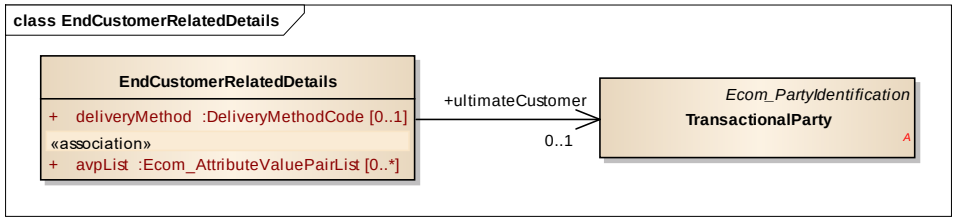
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	referencedDocumentUrl	anyURI	0..1	An URI pointing to the on-line location where the referenced document is stored.	

4.2.23 End Customer Related Details

Class Diagram



GDD Report

The content of the: EndCustomerRelatedDetails class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:EndCustomerRelatedDetails*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
EndCustomerRelatedDetails				Specifies detailed information related to ultimate customer, e.g. identification, delivery method, etc.	
Association	ultimateCustomer	TransactionalParty	0..1	Allows to specify the final customer that may be different from Ultimate Consignee. E.g. in B2C scenarios, Ultimate Customer may pick up the shipment that had been delivered to the Ultimate Consignee.	
Attribute	deliveryMethod	DeliveryMethodCode	0..1	Specifies method of delivery.	

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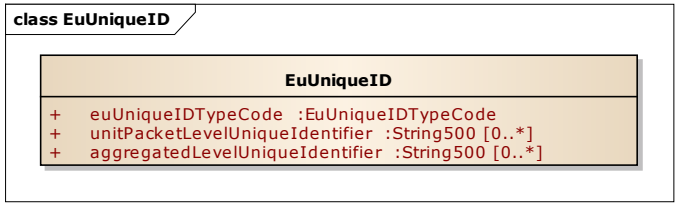
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	avpList	Ecom_AttributeValuePairList	0..*	The placeholder for non-standard data.	

4.2.24 Eu Unique ID

Class Diagram



GDD Report

The content of the: EuUniqueID class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:EuUniqueID*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
EuUniqueID				Group of attributes related to the EU Unique IDs.	WR 18-000279
Attribute	euUniqueIDTypeCode	EuUniqueIDTypeCode	0..1	Identification of UI types covered by the purchase order (recorded at the highest level of available aggregation).	
Attribute	unitPacketLevelUniqueIdentifier	String500	0..*	List of unit packet level UIs covered by the message. Mandatory if euUniqueIDTypeCode = 1 or 3	
Attribute	aggregatedLevelUniqueIdentifier	String500	0..*	List of aggregated level UIs covered by the message. Mandatory if euUniqueIDTypeCode = 2 or 3.	

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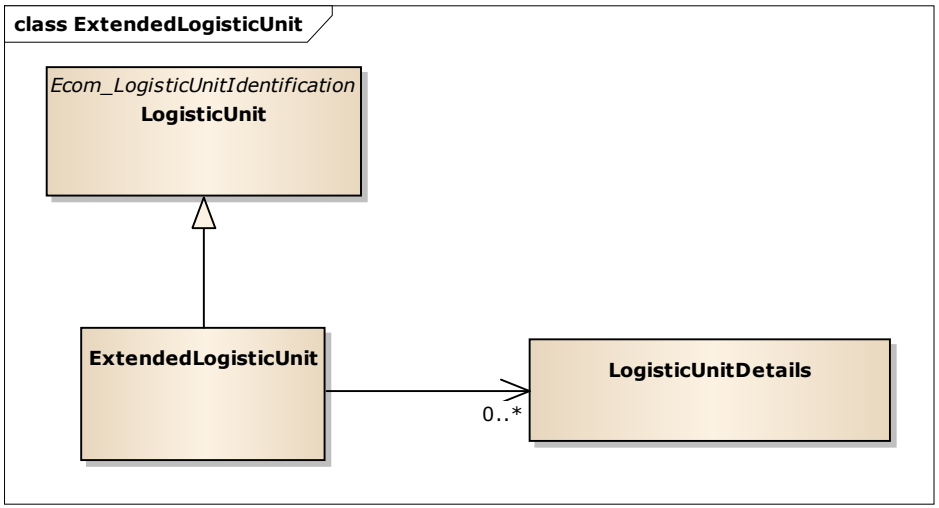
4.2.25 ExtendedLogisticUnit

Class Diagram



GDD Report

The content of the: ExtendedLogisticUnit class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ExtendedLogisticUnit*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ExtendedLogisticUnit				A class containing Logistic Unit information with additional details, such as batch, lot and serial number of items contained.	WR 17-000142
Generalisation		LogisticUnit			
Association		LogisticUnitDetails	0..*	Additional information about the items contained in the Logistic Unit.	

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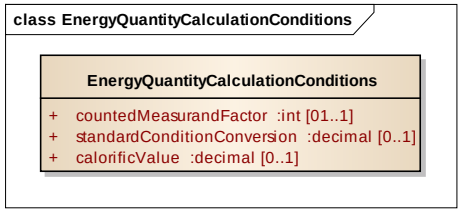
4.2.26 Energy Quantity Calculation Conditions

Class Diagram



GDD Report

The content of the: EnergyQuantityCalculationConditions class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:EnergyQuantityCalculationConditions*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
EnergyQuantityCalculationConditions				Specifies additional information for price calculation of energy products, e.g. gas, fuel.	
Attribute	countedMeasurandFactor	int	01..1	Factor for price calculation.	
Attribute	standardConditionConversion	decimal	0..1	The ratio of a product volume (e.g. gas) in standard conditions to the volume in the operating state.	
Attribute	calorificValue	decimal	0..1	The calorific value of a fuel indicates the amount of heat generated by the combustion and subsequent cooling of the combustion gases at 25 degrees Celsius.	

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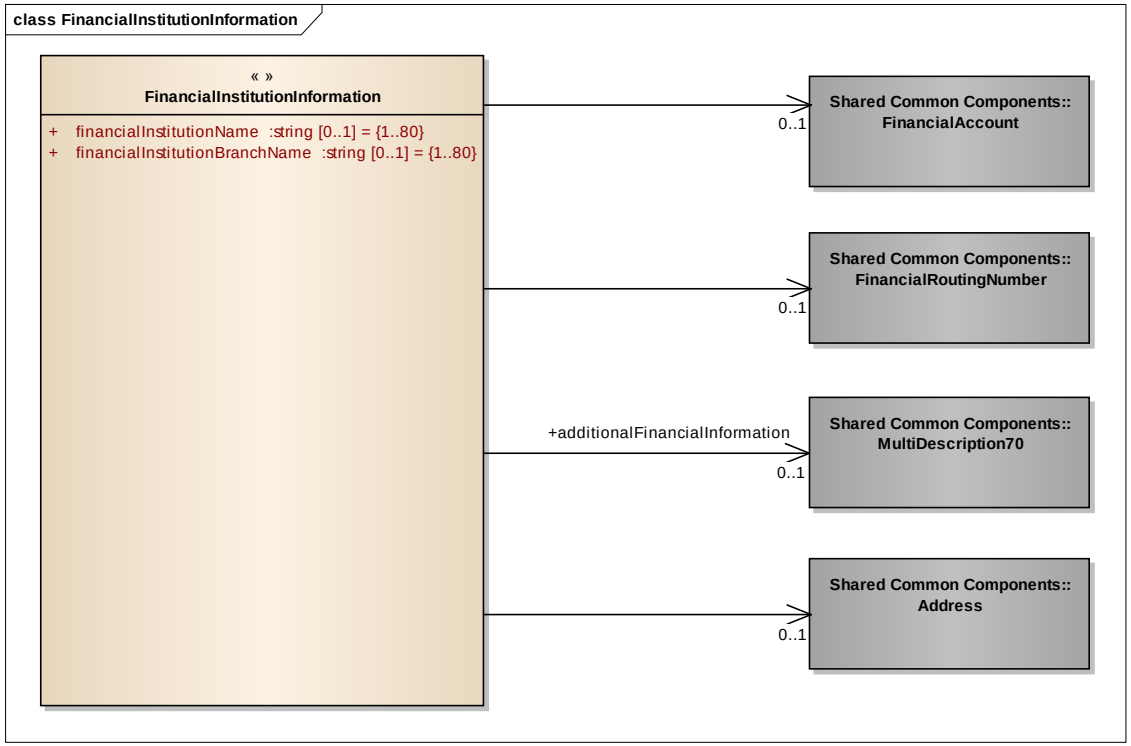
4.2.27 Financial Institution Information

Class Diagram



GDD Report

The content of the: FinancialInstitutionInformation class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:FinancialInstitutionInformation*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
FinancialInstitutionInformation				Information on a financial account and related financial institution.	
Association	additionalFinancialInformation	MultiDescription70	0..1	A description used to provide any additional information about a financial institution.	
Association		FinancialRoutingNumber	0..1	Provides the Routing Number for the Financial Institution.	

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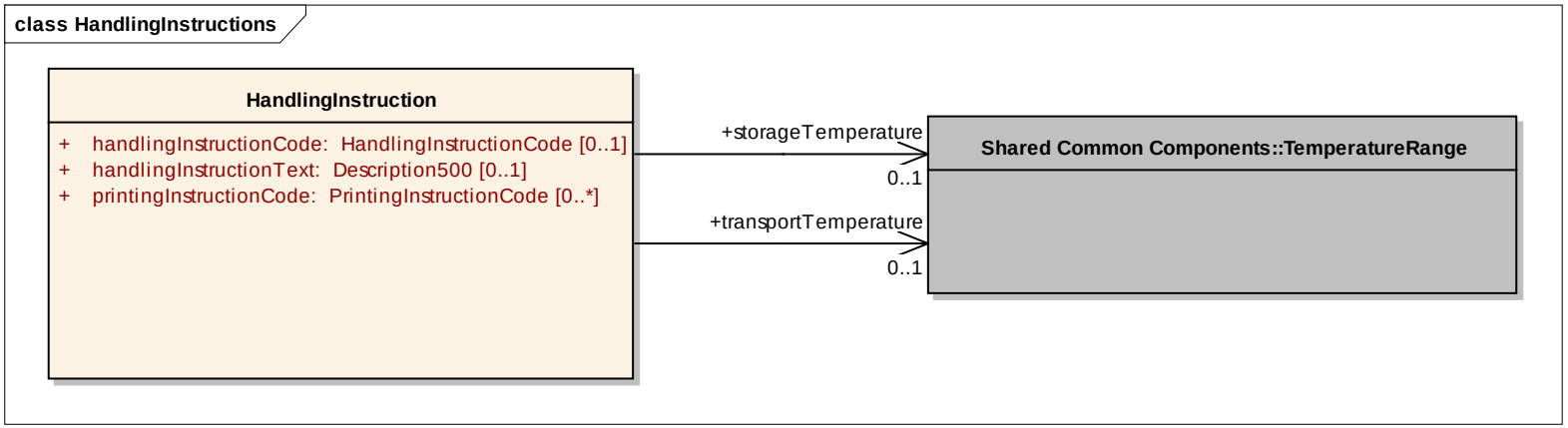
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		FinancialAccount	0..1	Information identifying a client's financial account with a financial institution.	
Association		Address	0..1	The company name and address of a financial institution.	
Attribute	financialInstitutionName	string	0..1	The name of the account holder's financial institution.	
Attribute	financialInstitutionBranchName	string	0..1	The name of a division or location of the account holder's financial institution.	

4.2.28 Handling Instruction

Class Diagram



GDD Report

The content of the: HandlingInstruction class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:HandlingInstruction*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
HandlingInstruction				Instruction on the way to treat goods during transport and storage.	
Association	transportTemperature	TemperatureRange	0..1	The minimum and maximum temperature applicable to the transportation of goods.	

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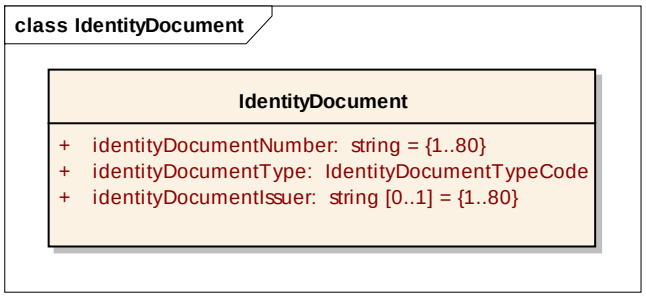
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association	storageTemperature	TemperatureRange	0..1	The minimum and maximum temperature applicable to the storage of goods.	
Attribute	handlingInstructionCode	HandlingInstructionCode	0..1	Code specifying an instruction applicable to the transport or storage of goods.	
Attribute	handlingInstructionText	Description500	0..1	Free text instruction applicable to the transport or storage of goods.	
Attribute	printingInstructionCode	PrintingInstructionCode	0..*	Code specifying the document on which the specified information needs to be printed.	

4.2.29 Identity Document

Class Diagram



GDD Report

The content of the: IdentityDocument class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:IdentityDocument*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
IdentityDocument				An identity document is any document which may be used to verify aspects of a person's personal identity or of a person's relationship with an organisation. If issued in the form of a small, mostly standard-sized card, it is usually called an identity card (IC).	

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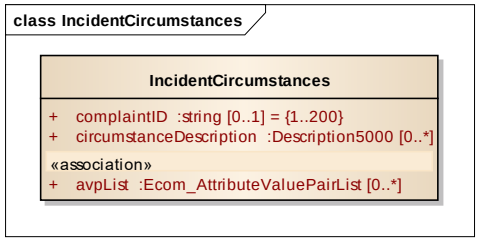
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	identityDocumentNumber	string	1..1	Unique identifier in this identity document, intended to identify a particular person.	
Attribute	identityDocumentType	IdentityDocumentTypeCode	1..1	Code specifying the type of identity document.	
Attribute	identityDocumentIssuer	string	0..1	Text specifying the issuer of the identity document.	

4.2.30 Incident Circumstances

Class Diagram



GDD Report

The content of the: IncidentCircumstances class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:IncidentCircumstances*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
IncidentCircumstances				The circumstances of the cash related incident.	
Attribute	complaintID	string	0..1	Identification of complaint in case of assault.	
Attribute	circumstanceDescription	Description5000	0..*	The description of incident circumstances.	
Attribute	avpList	Ecm_AttributeValuePairList	0..*	The placeholder for non-standard data.	

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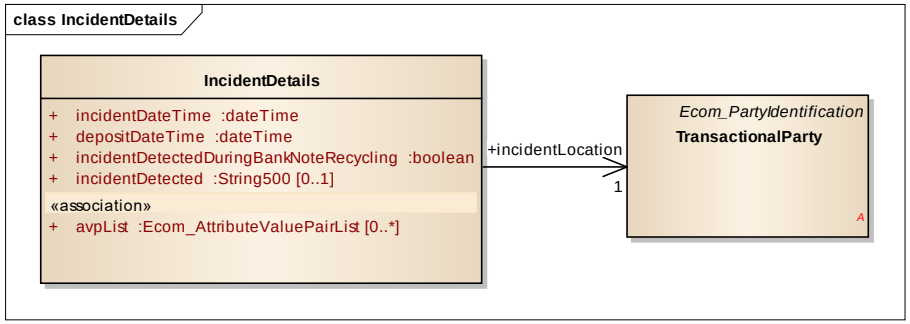
4.2.31 Incident Details

Class Diagram



GDD Report

The content of the: IncidentDetails class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:IncidentDetails

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
IncidentDetails				Information about the location and date of the cash related incident.	
Association	incidentLocation	TransactionalParty	1	Location where the cash related incident was detected.	
Attribute	incidentDateTime	dateTime	1..1	The date and time of the cash related incident detection.	
Attribute	depositDateTime	dateTime	1..1	Date and time when the customer made deposit at the bank branch.	
Attribute	incidentDetectedDuringBankNoteRecycling	boolean	1..1	Specifies whether the incident was detected during the bank note recycling.	
Attribute	avpList	Ecom_AttributeValuePairList	0..*	The placeholder for non-standard data.	

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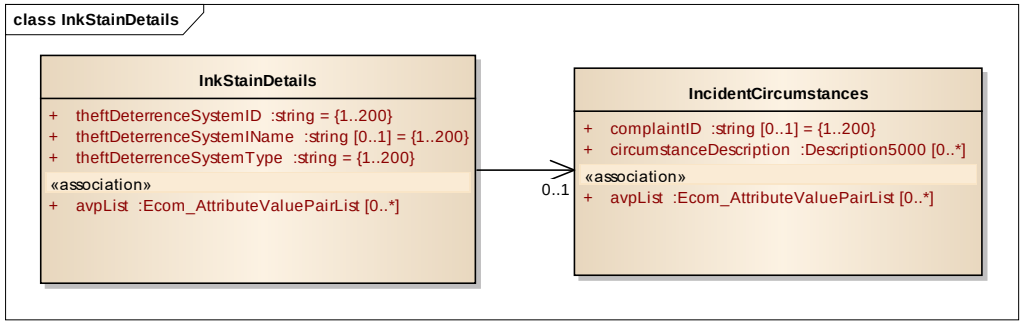
4.2.32 Ink Stain Details

Class Diagram



GDD Report

The content of the: InkStainDetails class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:InkStainDetails*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
InkStainDetails				Specifies detailed circumstances of ink-staining the suspicious bank notes.	
Association		IncidentCircumstances	0..1	The circumstances of the cash related incident.	
Attribute	theftDeterrenceSystemID	string	1..1	Identification of the theft deterring system.	
Attribute	theftDeterrenceSystemIName	string	0..1	Name of the theft deterring system.	
Attribute	theftDeterrenceSystemType	string	1..1	Type of the theft deterring system.	
Attribute	avpList	Ecom_AttributeValuePairList	0..*	The placeholder for non-standard data.	

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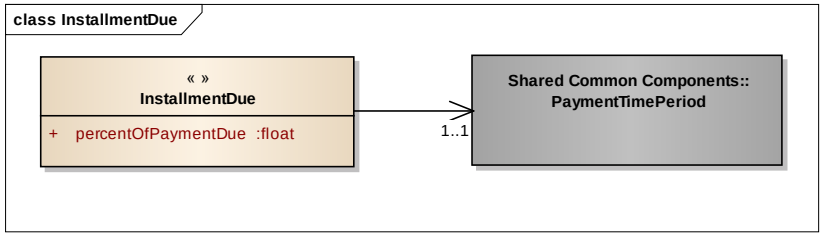
4.2.33 Installment Due

Class Diagram



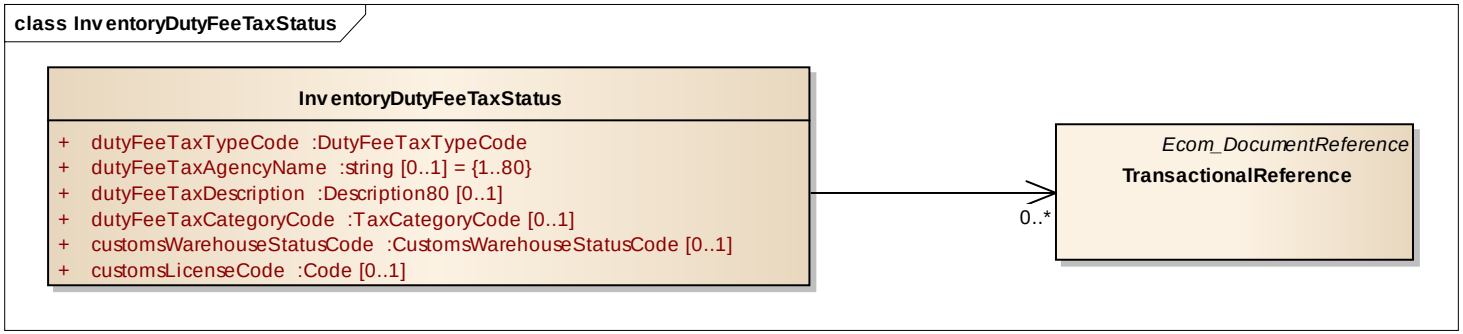
GDD Report

The content of the: InstallmentDue class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:InstallmentDue

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
InstallmentDue				Specifies the percentage amount of the payment due for a Payment Time Period.	
Association		PaymentTimePeriod	1..1	Provides the payment time period information for the installment.	
Attribute	percentOfPaymentDue	float	1..1	Specifies the exact amount of the payment due this payment period. The amount is expressed as a percent.	

4.2.34 Inventory Duty Fee Tax Status

Class Diagram



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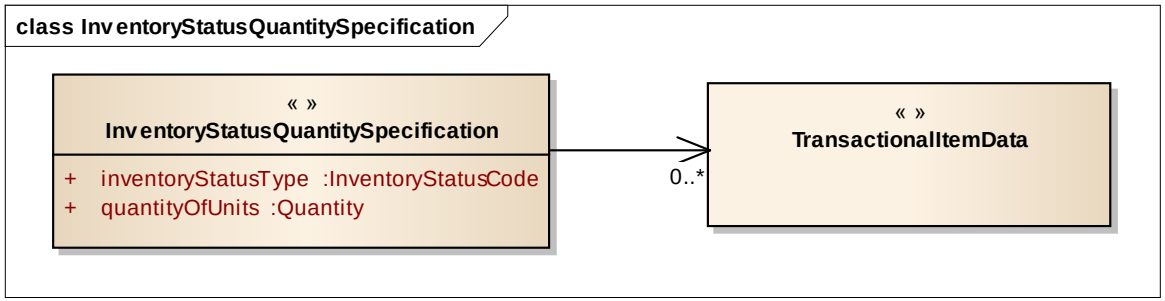
GDD Report

The content of the: InventoryDutyFeeTaxStatus class, its structure and component definitions can be accessed in the Global Data Dictionary: http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:InventoryDutyFeeTaxStatus

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
InventoryDutyFeeTaxStatus				The inventory status details related to a particular duty, tax or fee.	
Association		TransactionalReference	0..*		
Attribute	dutyFeeTaxTypeCode	DutyFeeTaxTypeCode	1..1	Code specifying the type of duty, fee or tax.	
Attribute	dutyFeeTaxAgencyName	string	0..1	Agency responsible for the collection of this duty, fee or tax.	
Attribute	dutyFeeTaxDescription	Description80	0..1	Textual description of this duty, fee or tax.	
Attribute	dutyFeeTaxCategoryCode	TaxCategoryCode	0..1	Code specifying the applicable charge category for this duty, fee or tax. For example low, high, exempt.	
Attribute	customsWarehouseStatusCode	CustomsWarehouseStatusCode	0..1	Code specifying the customs warehouse status of the goods, for example free circulation.	
Attribute	customsLicenseCode	Code	0..1	Code specifying the type of customs license that relates to the customs status of the goods. For example Entrepot Type E.	

4.2.35 Inventory Status Quantity Specification

Class Diagram



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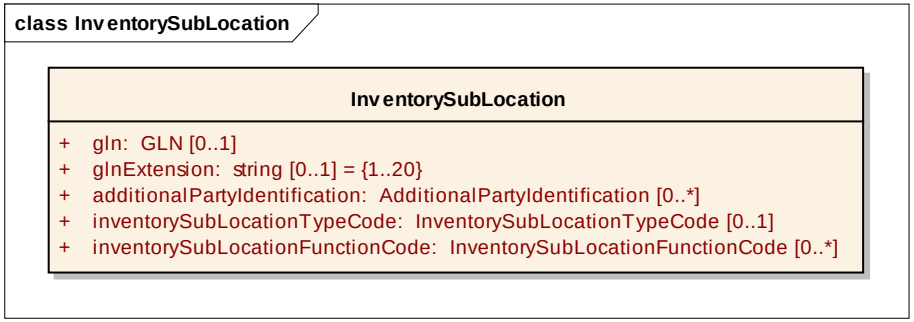
GDD Report

The content of the: InventoryStatusQuantitySpecification class, its structure and component definitions can be accessed in the Global Data Dictionary: http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:InventoryStatusQuantitySpecification

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
InventoryStatusQuantitySpecification				Supplies the inventory status information with the quantity and the inventory status type.	
Association		TransactionalItemData	0..*	Extended attributes describing the characteristics and history of the goods.	
Attribute	inventoryStatusType	InventoryStatusCode	1..1	Code specifying the inventory status of the goods.	
Attribute	quantityOfUnits	Quantity	1..1	Quantity of goods with the specified inventory status.	

4.2.36 Inventory Sub Location

Class Diagram



GDD Report

The content of the: InventorySubLocation class, its structure and component definitions can be accessed in the Global Data Dictionary: http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:InventorySubLocation

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
InventorySubLocation				An inventory sub location is a physical subdivision within a warehouse. Examples of physical subdivisions: dock, bin, rack, yard.	

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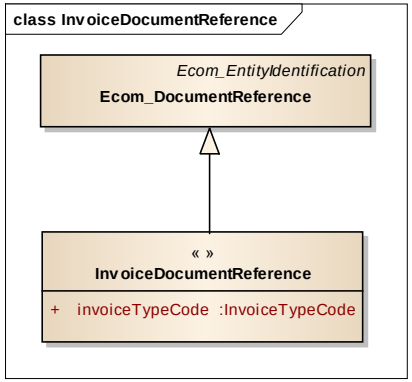
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	gln	GLN	0..1	The Global Location Number (GLN) used to identify the sub location.	
Attribute	glnExtension	string	0..1	Text used to further identify internal physical locations within an inventory sub-location which is identified with a GLN.	
Attribute	additionalPartyIdentification	AdditionalPartyIdentification	0..*	Identifier of the sub-location other than the GLN.	
Attribute	inventorySubLocationTypeCode	InventorySubLocationTypeCode	0..1	Code specifying the primary business function of the physical location.	
Attribute	inventorySubLocationFunctionCode	InventorySubLocationFunctionCode	0..*	Code that further qualifiers the business function of the inventory sub location. For example frozen area.	

4.2.37 Invoice Document Reference

Class Diagram



GDD Report

The content of the: InvoiceDocumentReference class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:InvoiceDocumentReference*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
InvoiceDocument Reference				Information on an invoice that is referenced in another business document.	

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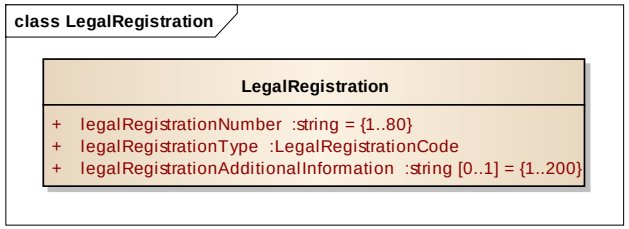
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Generalization		Ecom_DocumentReference		Provides the details of the referenced document.	
Attribute	invoiceTypeCode	InvoiceTypeCode	1..1	Code specifying the type of invoice.	

4.2.38 Legal Registration

Class Diagram



GDD Report

The content of the: LegalRegistration class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LegalRegistration

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
LegalRegistration				The registration details of an organisation in a particular legal register.	
Attribute	legalRegistrationNumber	string	1..1	Unique identifier of the organisation in the legal register.	
Attribute	legalRegistrationType	LegalRegistrationCode	1..1	Code specifying the type of legal register.	
Attribute	legalRegistrationAdditionalI nformation	string	0..1	Additional information related to legal registration, e.g. CEO name.	

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4.2.39 Levied Duty Fee Tax

Class Diagram

GDD Report

The content of the: LeviedDutyFeeTax class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LeviedDutyFeeTax

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
LeviedDutyFeeTax				A duty, fee or tax charged in a particular trade transaction.	
Attribute	dutyFeeTaxAccountingCurrency	CurrencyCode	0..1	A duty, fee or tax charged in a particular trade transaction.	
Attribute	dutyFeeTaxAgencyName	string	0..1	Agency responsible for the collection of this duty, fee or tax.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	dutyFeeTaxAmount	Amount	0..1	The monetary amount being charged for this duty, fee or tax.	
Attribute	dutyFeeTaxAmountInAccountingCurrency	Amount	0..1	The monetary amount being charged for this duty, fee or tax, expressed in the accounting currency.	
Attribute	dutyFeeTaxBasisAmount	Amount	0..1	The monetary amount on which the calculation of the charged amount is based.	
Attribute	dutyFeeTaxBasisAmountInAccountingCurrency	Amount	0..1	The monetary amount on which the calculation of the charged amount is based, expressed in the accounting currency.	
Attribute	dutyFeeTaxCategoryCode	TaxCategoryCode	0..1	Code specifying the applicable charge category for this duty, fee or tax. For example low, high, exempt.	
Attribute	dutyFeeTaxDescription	Description80	0..1	Textual description of this duty, fee or tax. For example, “Taxes sur les supports audio” or WEEE for “Waste Electrical and Electronic Equipment”.	
Attribute	dutyFeeTaxExemptionDescription	Description80	0..1	Textual description of the reason for being exempt for this duty, fee or tax.	
Attribute	dutyFeeTaxExemptionReason	DutyFeeTaxExemptionReasonCode	0..1	Specifies the reason for exemption of duty, fee or tax	
Attribute	dutyFeeTaxPercentage	float	0..1	Percentage allowing calculation of the amount being charged.	
Attribute	dutyFeeTaxPointDate	date	0..1	Date at which a tax becomes applicable. E.g. If the supply is a straightforward sale of goods, the tax point is normally the date on which the customer takes possession of the goods. For the supply of services, the tax point is normally the date on which the service is completed.	
Attribute	dutyFeeTaxTypeCode	DutyFeeTaxTypeCode	0..1	Code specifying the type of duty, fee or tax.	
Attribute	extension	Extension	0..1		

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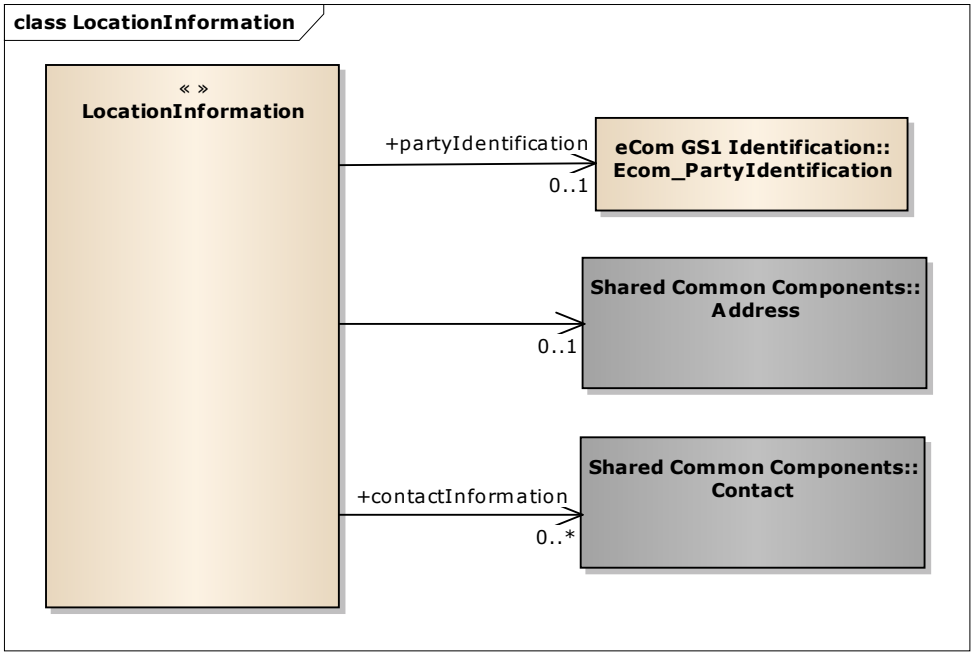
4.2.40 Location Information

Class Diagram



GDD Report

The content of the: LocationInformation class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LocationInformation

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
LocationInformation				Provides the contact, name and address, and GLN of the location.	
Association	contactInformation	Contact	0..*	Provides the contact information for a location.	
Association	partyIdentification	Ecom_PartyIdentification	0..1	Provides the location's Global Location Number and additional identifications.	
Association		Address	0..1	Provides the location's address.	WR 17-000038

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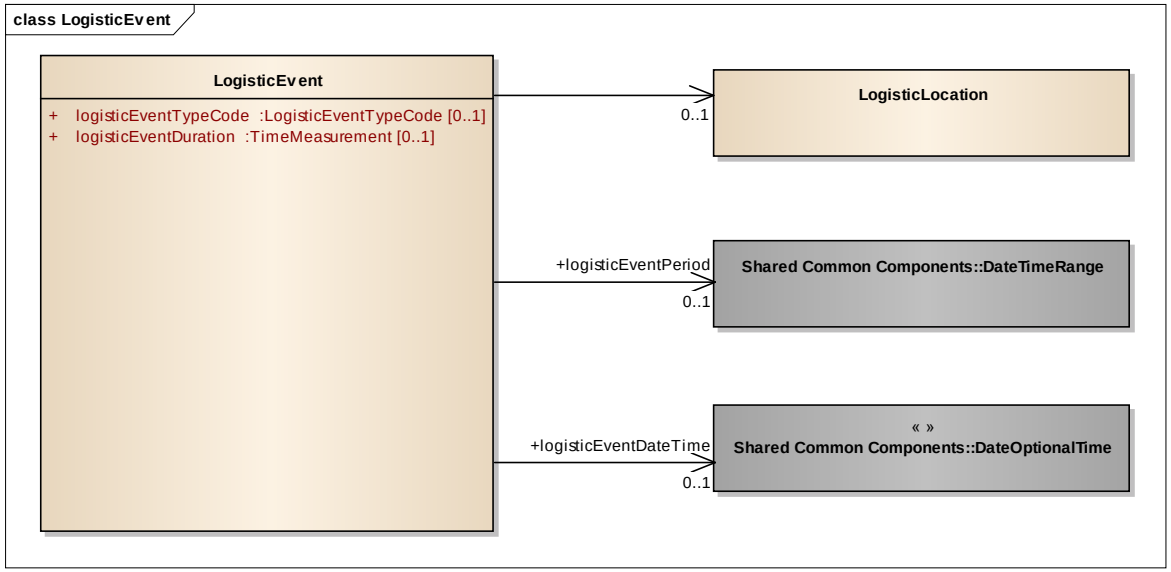
4.2.41 Logistic Event

Class Diagram



GDD Report

The content of the: LogisticEvent class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LogisticEvent

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
LogisticEvent				A planned or actual occurrence of a physical goods movement at a specific time and location.	
Association	logisticEventDateTime	DateOptionalTime	0..1	The date and time on which the logistic event occurs.	
Association	logisticEventPeriod	DateTimeRange	0..1	The timeframe during which the logistic event occurs.	
Association		LogisticLocation	0..1	The location where the logistic event occurs.	
Attribute	logisticEventTypeCode	LogisticEventTypeCode	0..1	Code specifying the type of logistic event. Example: Customs clearance.	

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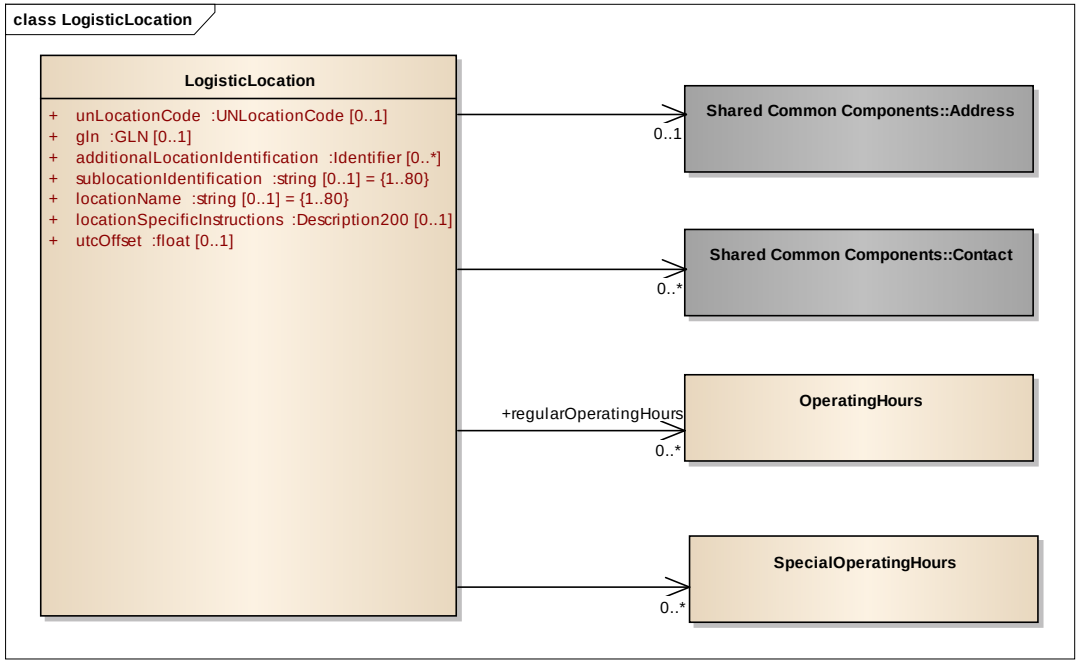
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	logisticEventDuration	TimeMeasurement	0..1	Measurement value specifying the duration of the logistic event.	

4.2.42 Logistic Location

Class Diagram



GDD Report

The content of the: LogisticLocation class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LogisticLocation

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
LogisticLocation				Place where a physical goods movement is or will be carried out.	
Association		Address	0..1	Address details of this logistic location.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		SpecialOperatingHours	0..*	The period during which the location is operational on special days, such as holidays.	
Association	regularOperatingHours	OperatingHours	0..*	The period during which the location is normally operational on a weekday.	
Association		Contact	0..*	Person or department that can be contacted at this logistic location.	
Attribute	unLocationCode	UNLocationCode	0..1	UN/LOCODE is a geographic coding scheme maintained by UN/ECE for locations used in trade and transport with functions such as seaports, rail and road terminals, airports, post offices and border crossing points.	
Attribute	gln	GLN	0..1	The GS1 global location number (GLN) of this logistic location.	
Attribute	additionalLocationIdentification	Identifier	0..*	Identification of a location by use of a code other than the Global Location Number.	
Attribute	sublocationIdentification	string	0..1	Text further specifying the exact logistic location. For example: dock door, department, building.	
Attribute	locationName	string	0..1	The name of this logistic location.	
Attribute	locationSpecificInstructions	Description200	0..1	Instructions related to the pick-up or drop-off of goods at this location.	
Attribute	utcOffset	float	0..1	Numeric value specifying the time zone of the location as offset from the Coordinated Universal Time (UTC).	

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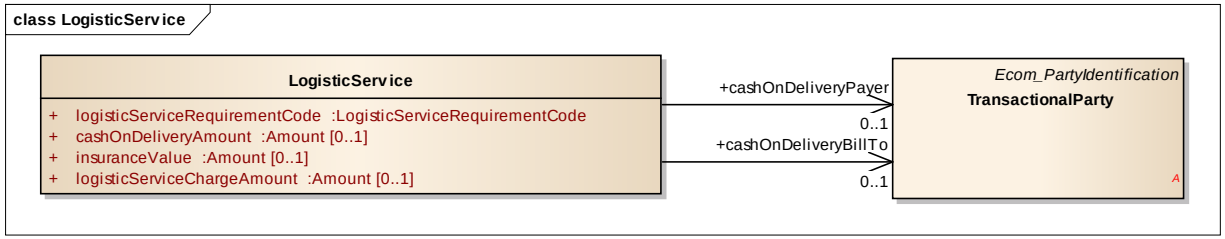
4.2.43 Logistic Service

Class Diagram



GDD Report

The content of the: LogisticService class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LogisticService*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
LogisticService				Service requested from a logistic services provider.	
Association	cashOnDeliveryBillTo	TransactionalParty	0..1	Identifies the party who receives the cash-on-delivery invoice. Synonym: Invoicee.;[BRAD WIO]	
Association	cashOnDeliveryPayer	TransactionalParty	0..1	Identifies the party who will carry out the payment of the cash-on-delivery invoice.	
Attribute	logisticServiceRequirementCode	LogisticServiceRequirementCode	1..1	Code specifying the type of service required.; BRAD CON25, SHM23	
Attribute	cashOnDeliveryAmount	Amount	0..1	Monetary amount applicable in case the logistic services provider is requested collect the payment for the delivered goods.; BRAD CON20, SHM6	
Attribute	insuranceValue	Amount	0..1	Monetary amount applicable in case the logistic service provider is requested to arrange the insurance of the delivered goods.; BRAD CON20, SHM6	
Attribute	logisticServiceChargeAmount	Amount	0..1	Monetary amount to be paid to the logistic service provider as compensation for the provided service.	

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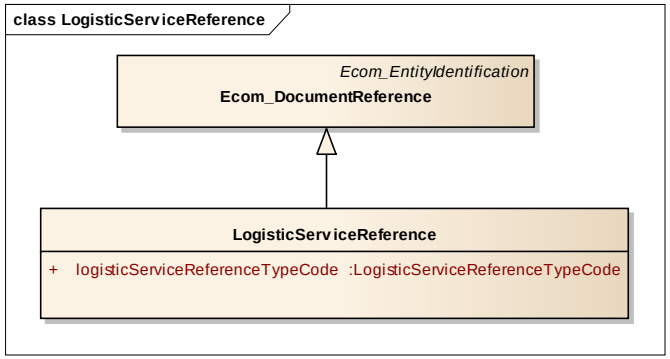
4.2.44 Logistic Service Reference

Class Diagram



GDD Report

The content of the: LogisticServiceReference class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LogisticServiceReference*

Content	Attribute/Role	Datatype/Secondaryclass	Multiplicity	Definition	Requirements
LogisticServiceReference				References to GS1 messages related to logistic services	
Attribute	logisticServiceReferenceTypeCode	LogisticServiceReferenceTypeCode	1..1	List of GS1 messages related to logistic services. Allowed code values are specified in GS1 Code List LogisticServiceReferenceTypeCode	
Generalization		Ecom_DocumentReference		Provides the details of the referenced document.	

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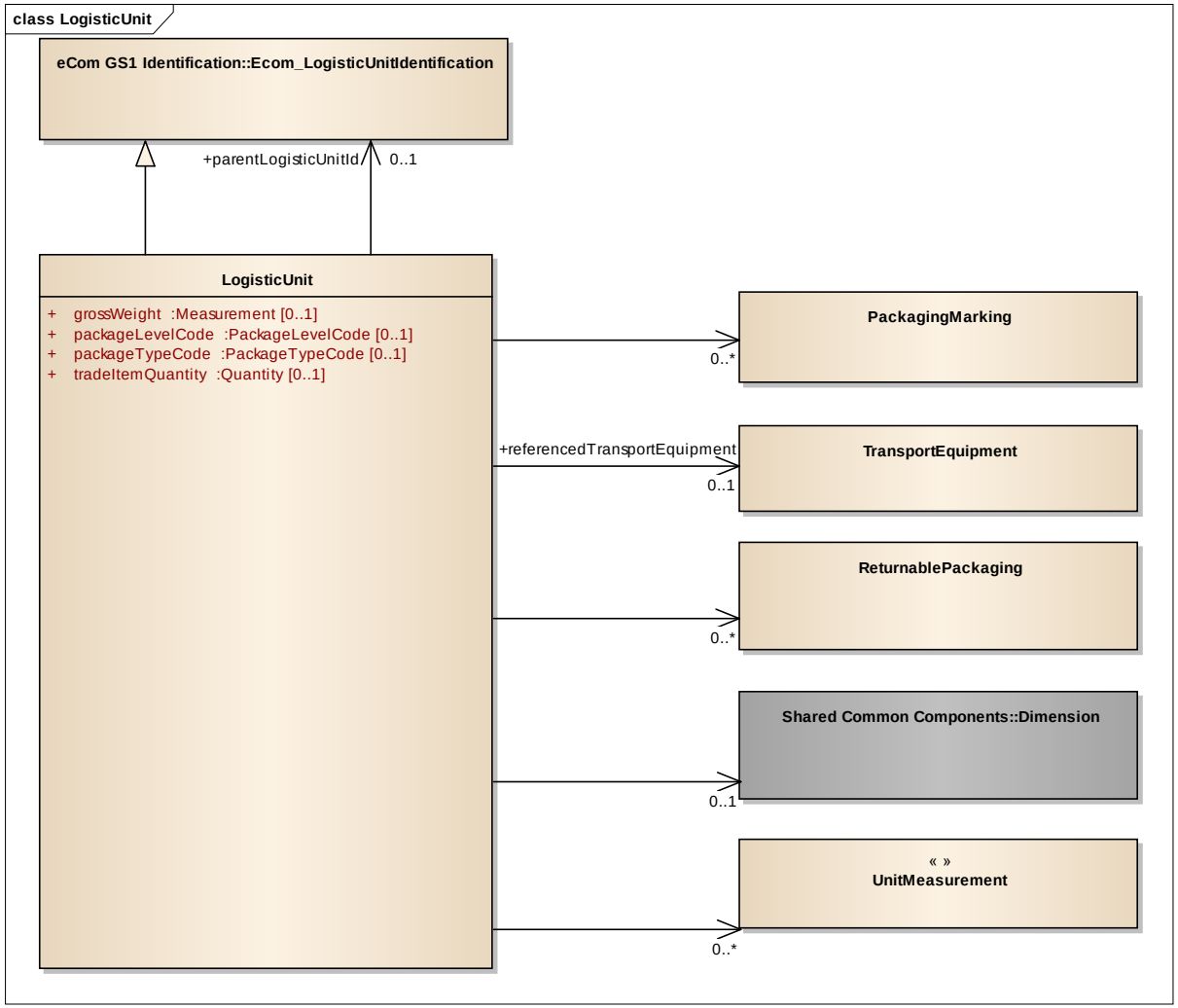
4.2.45 Logistic Unit

Class Diagram



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GDD Report

The content of the: LogisticUnit class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LogisticUnit*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
LogisticUnit				A logistic unit is a unit of any composition made up for transport and or storage which has to be managed throughout the supply chain.	
Association		Dimension	0..1	The depth, height and width of the logistic unit.	
Association	referencedTransportEquipment	TransportEquipment	0..1	Reference to the transport equipment that contains this logistic unit.	
Association		PackagingMarking	0..*	Details on the markings present on the packaging of the logistic unit.	
Association		UnitMeasurement	0..*	Information specifying the weight or volume of the logistic unit.	
Association		ReturnablePackaging	0..*	Details on the returnable packaging included in the logistic unit.	
Generalization		Ecom_LogisticUnitIdentification		The identification of the logistic unit.	
Association	parentLogisticUnitId	Ecom_LogisticUnitIdentification	0..1	Reference to the logistic unit that contains this logistic unit.	
Attribute	grossWeight	Measurement	0..1	The weight of the logistic unit including packaging. NOTE: With the addition of UnitMeasurement in 3.1 this element has become redundant.	
Attribute	packageLevelCode	PackageLevelCode	0..1	Code specifying the hierarchical level of this logistical unit within a consignment or shipment.	
Attribute	packageTypeCode	PackageTypeCode	0..1	Code specifying the type of logistic unit based on its primary packaging.	
Attribute	tradeItemQuantity	Quantity	0..1	The number of trade items contained in the logistic unit.	

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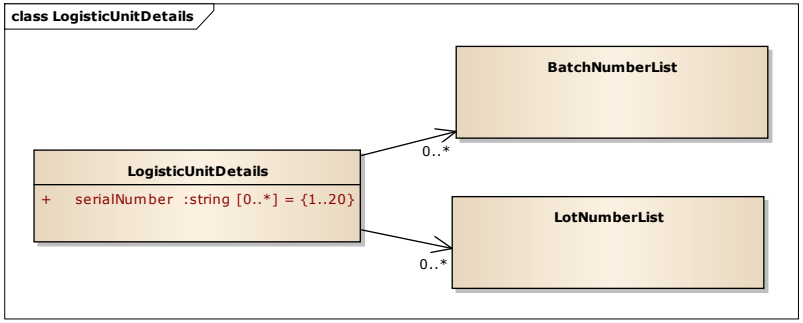
4.2.46 Logistic Unit Details

Class Diagram



GDD Report

The content of the: LogisticUnitDetails class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LogisticUnitDetails

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
LogisticUnitDetails				Additional information about the items contained in the Logistic Unit.	WR 17-000142
Attribute	serialNumber	String {1..20}	0..*	A unique identifier assigned to a specific trade item.	
Association		BatchNumberList	0..*	Provides list of Batch Numbers of Trade Items contained in a Logistic Unit.	
Association		LotNumberList	0..*	Provides list of Lot Numbers of Trade Items contained in a Logistic Unit.	

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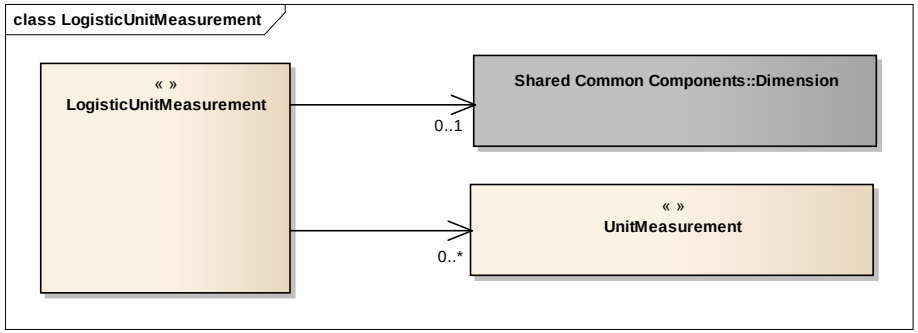
4.2.47 Logistic Unit Measurement

Class Diagram



GDD Report

The content of the: LogisticUnitMeasurement class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LogisticUnitMeasurement

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
LogisticUnitMeasurement				Information specifying the physical measurement and the physical dimensions of a specific logistic unit.	
Association		UnitMeasurement	0..*	Information specifying the weight or volume of the logistic unit.	
Association		Dimension	0..1	Information specifying the physical dimensions of a specific logistic unit.	

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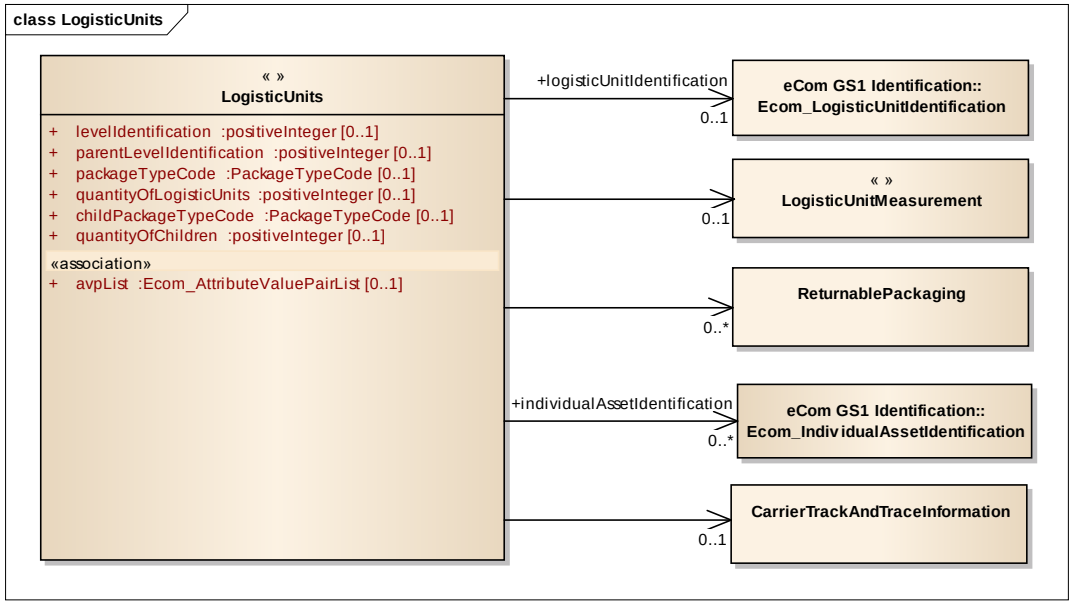
4.2.48 Logistic Units

Class Diagram



GDD Report

The content of the: LogisticUnits class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LogisticUnits*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
LogisticUnits				Information specifying the physical appearance, the physical dimensions as well as the contents of a specific logistic unit.	
Association		ReturnablePackaging	0..*	Details on the returnable packaging included in the logistic units.; WR 12-199	
Association		CarrierTrackAndTraceInformation	0..1	Set of information related to package tracking and tracing assigned by the carrier.	
Association	individualAssetIdentification	Ecom_IndividualAssetIdentification	0..*	Information used to identify an asset.	

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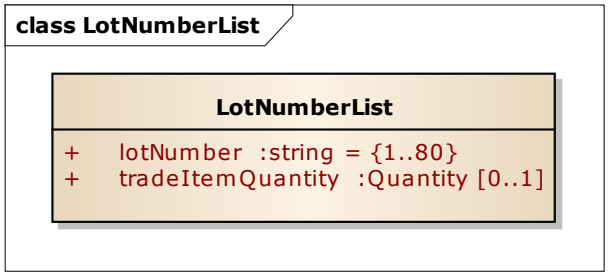
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association	logisticUnitIdentification	Ecom_LogisticUnitIdentification	0..1	The globally unique identification attached to the logistic unit, used for logistical and traceability purposes.	
Association		LogisticUnitMeasurement	0..1	The physical dimensions of the logistic unit.	
Attribute	levelIdentification	positiveInteger	0..1	Hierarchical structure level identifier (Sequential numbering recommended)	
Attribute	parentLevelIdentification	positiveInteger	0..1	Hierarchical structure parent identifier	
Attribute	packageTypeCode	PackageTypeCode	0..1	Code specifying the type of package.	
Attribute	quantityOfLogisticUnits	positiveInteger	0..1	Number of packages at the current level.	
Attribute	childPackageTypeCode	PackageTypeCode	0..1	Code specifying the type of the included (lower level) package.	
Attribute	quantityOfChildren	positiveInteger	0..1	Number of packages at the next lower level.	
Attribute	avpList	Ecom_AttributeValuePairList	0..1	Temporary attributes introduced between minor versions.	

4.2.49 Lot Number List

Class Diagram



GDD Report

The content of the: LotNumberList class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LotNumberList*

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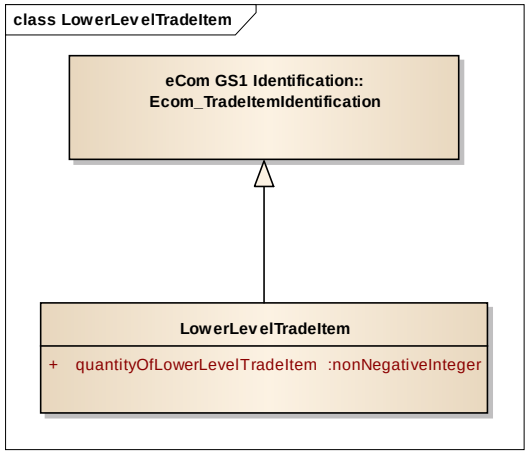
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
LotNumberList				Provides list of Lot Numbers of Trade Items contained in a Logistic Unit.	17-000142
Attribute	lotNumber	String {1..80}	1..1	A distinctive combination of numbers and/or letters from which the complete history of the manufacture, processing, packaging, coding and distribution of a batch can be determined.	
Attribute	tradeItemQuantity	Quantity	0..1	The quantity of Trade Items sharing the same Batch Number.	

4.2.50 Lower Level Trade Item

Class Diagram



GDD Report

The content of the: LowerLevelTradeItem class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:LowerLevelTradeItem*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
LowerLevelTradeItem				Identification and quantity of trade items contained in the current trade item	

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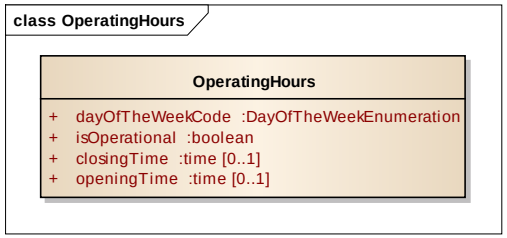
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Generalization		Ecom_TradeItemIdentification		Provides the GTIN as the unique identifier for the item and optionally additional formats of non GTIN identifiers for the item.	
Attribute	quantityOfLowerLevelTradeItem	nonNegativeInteger	1..1	Number of trade items contained in the current trade item	

4.2.51 Operating Hours

Class Diagram



GDD Report

The content of the: OperatingHours class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:OperatingHours*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
OperatingHours				The period during which a business or facility is operational on a weekday.	
Attribute	dayOfTheWeekCode	DayOfTheWeekEnumeration	1..1	Code specifying the day of the week to which the operating hours apply.	
Attribute	isOperational	boolean	1..1	Indicator specifying whether or not the business or facility is operational on the specified day.	
Attribute	closingTime	time	0..1	Time at which the business or facility closes on the specified day.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	openingTime	time	0..1	Time at which the business or facility opens on the specified day.	

4.2.52 Order Logistical Date Information

Class Diagram

GDD Report

The content of the: OrderLogisticalDateInformation class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:OrderLogisticalDateInformation*

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
OrderLogisticalDateInformation				Contains the choices to select various types of dates or date ranges associated to the order.	
Association	requestedPickUpDateTime	DateOptionalTime	0..1	Provides the date and optional time on which the goods are requested to be available for pickup at the seller's location.	
Association	requestedDeliveryDateTimeAtUltimateConsignee	DateOptionalTime	0..1	Provides the date and optional time on which the goods are requested to be delivered to the Ultimate Consignee.	
Association	requestedShipDateTime	DateOptionalTime	0..1	Provides the date and optional time on which the goods are requested to be shipped or despatched by the supplier.	
Association	requestedDeliveryDateTime	DateOptionalTime	0..1	Provides the date and optional time on which the goods are requested to be delivered.	
Association	requestedDeliveryDateRange	DateTimeRange	0..1	Provides the earliest and latest date ranges and the optional times on which the goods are requested to be delivered.	
Association	requestedDeliveryDateRangeAtUltimateConsignee	DateTimeRange	0..1	Provides the earliest and latest date ranges and the optional times on which the goods are requested to be delivered to the Ultimate Consignee.	
Association	requestedShipDateRange	DateTimeRange	0..1	Provides the earliest and latest date ranges and the optional times on which the goods are requested to be shipped or despatched.	

4.2.53 Order Logistical Information

Class Diagram

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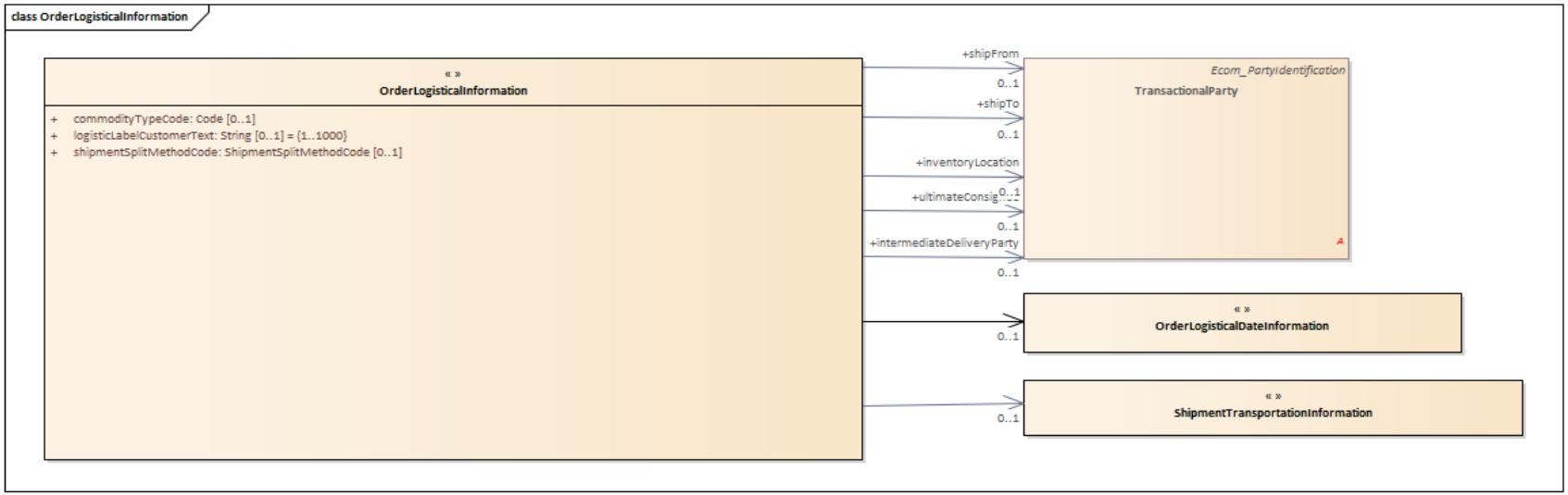

GDD Report

The content of the: OrderLogisticalInformation class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:OrderLogisticalInformation*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
OrderLogisticalInformation				Provides identification of the locations of the parties dealing with the goods associated with the order, as well as the dates or date ranges associated with the order and the transportation of the shipment associated with the order.	
Association	shipFrom	TransactionalParty	0..1	Identifies the origin location from which goods will be shipped.	
Association		OrderLogisticalDateInformation	0..1	Contains the choices to select various types of dates or date ranges associated to the order.	
Association	ultimateConsignee	TransactionalParty	0..1	Identifies the final destination location to which goods will be shipped.	
Association	inventoryLocation	TransactionalParty	0..1	Identifies the location of merchandise or stock on hand.	

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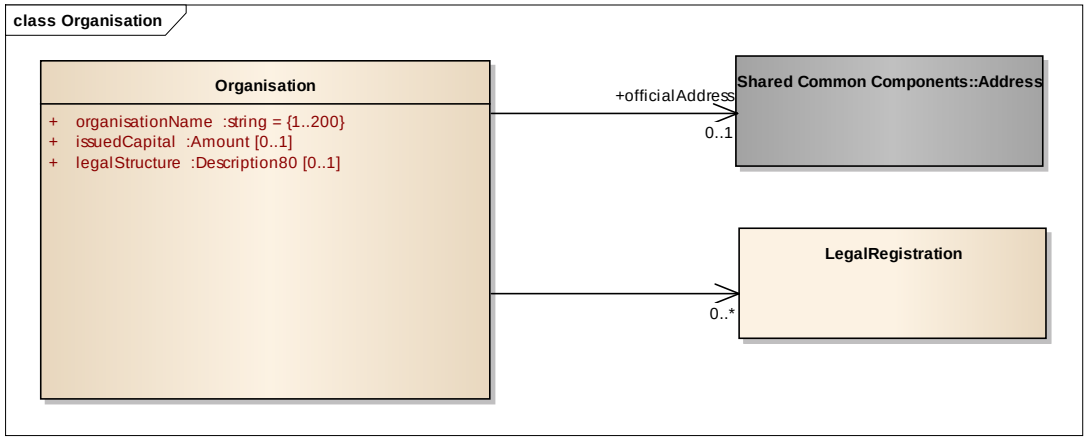
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		ShipmentTransportationInformation	0..1	Provides information on the means of transportation or carrier associated with the order.	
Association	shipTo	TransactionalParty	0..1	Identifies the destination location to which goods will be shipped.	
Association	intermediateDeliveryParty	TransactionalParty	0..1	An additional party involved in order delivery, such as a distribution hub.	WR 17-000311 - 17-000318
Attribute	commodityTypeCode	Code	0..1	Specifies the type of commodity for transport purposes, according to the user-selected coding scheme.	
Attribute	logisticLabelCustomerText	String	0..1	The customer defined text to be printed on the logistics label(s) of the logistic unit(s) derived from one and the same purchase order.	Initial Value {1..1000} WR 20-265
Attribute	shipmentSplitMethodCode	ShipmentSplitMethodCode	0..1	Specifies a method of splitting shipment of ordered goods.	WR 16-000349

4.2.54 Organisation

Class Diagram



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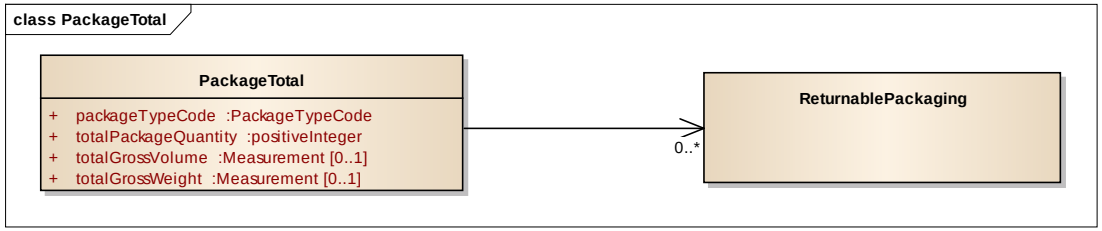
GDD Report

The content of the: Organisation class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:Organisation

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Organisation				An entity pursuing collective goals, such as a business, government body, department, charity, or financial institution.	
Association		LegalRegistration	0..*	The registration details of the organisation in a particular legal register.	
Association	officialAddress	Address	0..1	The address where the organisation is officially based.	
Attribute	organisationName	string	1..1	The official name of the organisation.	
Attribute	issuedCapital	Amount	0..1	The amount of the issued capital of the organisation.	
Attribute	legalStructure	Description80	0..1	Description of the type of legal structure of the organisation.	

4.2.55 Package Total

Class Diagram



GDD Report

The content of the: PackageTotal class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:PackageTotal

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PackageTotal				Aggregated information for a specific package type.	

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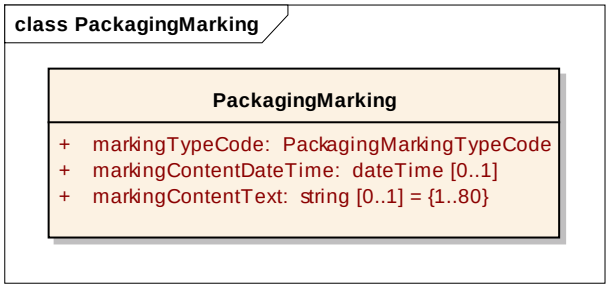
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		ReturnablePackaging	0..*	Provides detailed information for the administration of returnable packaging.	
Attribute	packageTypeCode	PackageTypeCode	1..1	The code specifying the type of logistics package.	
Attribute	totalPackageQuantity	positiveInteger	1..1	The total number of units of this package type.	
Attribute	totalGrossVolume	Measurement	0..1	A measure of the gross volume normally calculated by multiplying the maximum length, width, and height of this package type;BRAD CON15, SHM15	
Attribute	totalGrossWeight	Measurement	0..1	A measure of the gross weight (mass) of this package which includes the weight of packaging but which excludes the weight of any transport equipment.;CON14	

4.2.56 Packaging Marking

Class Diagram



GDD Report

The content of the: PackagingMarking class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:PackagingMarking

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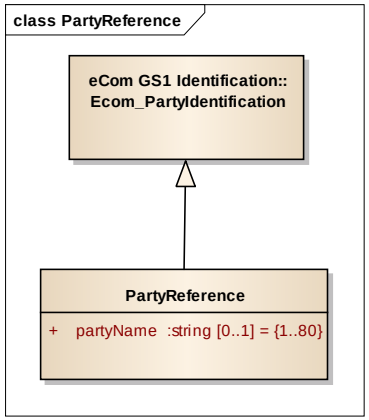
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PackagingMarking				Textual or bar-coded information that is physically present on the packaging. This information can be about either the contents of the package e.g. best before date or the packaging e.g. Recycling characteristics.	
Attribute	markingTypeCode	PackagingMarkingTypeCode	1..1	The code specifying the type of marking on the package for example batch number.	
Attribute	markingContentDateTime	dateTime	0..1	The value as printed on the packaging, specified as date time value.	
Attribute	markingContentText	string	0..1	The value as printed on the packaging, specified as text.	

4.2.57 Party Reference

Class diagram



GDD report

The content of the: PartyReference class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:PartyReference

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PartyReference				Name and identification details of a party.	

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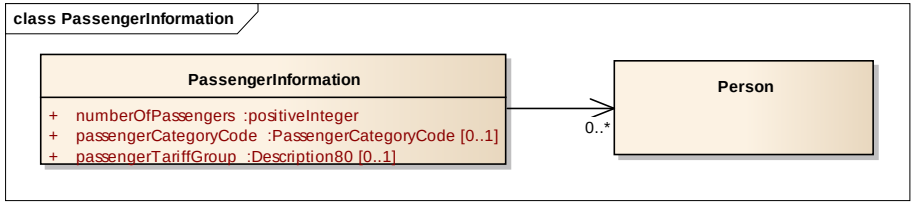
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Generalization		Ecom_PartyIdentification		The identification of the referenced party.	
Attribute	partyName	string	0..1	The name of the referenced party.	

4.2.58 Passenger Information

Class Diagram



GDD Report

The content of the: PassengerInformation class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:PassengerInformation*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PassengerInformation				Information on persons being transported.	
Association		Person	0..*	Information on the individual persons travelling as passengers.	
Attribute	numberOfPassengers	positiveInteger	1..1	The number of persons being transported.	
Attribute	passengerCategoryCode	PassengerCategoryCode	0..1	Code specifying the role, function or other main characteristic categorizing the type of passenger.	
Attribute	passengerTariffGroup	Description80	0..1	Text describing the tariff group of the transported passengers.	

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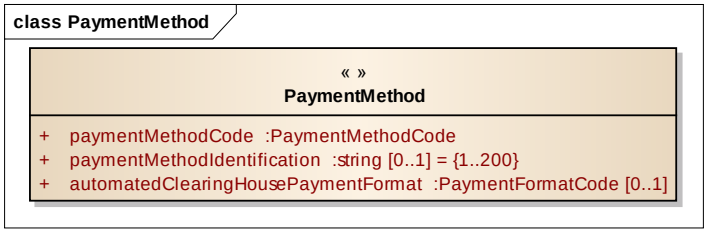
4.2.59 Payment Method

Class Diagram



GDD Report

The content of the: PaymentMethod class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:PaymentMethod*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PaymentMethod				Provides information on the means of payment.	
Attribute	paymentMethodCode	PaymentMethodCode	1..1	A predefined list that identifies a means of payment. For example cheque, bankers draft, credit card, etc..	
Attribute	paymentMethodIdentification	string	0..1	The identification of the payment method, e.g. credit or fuel card number.	
Attribute	automatedClearingHousePaymentFormat	PaymentFormatCode	0..1	A code specifying the format used when a payment is made through an automated clearing house.	

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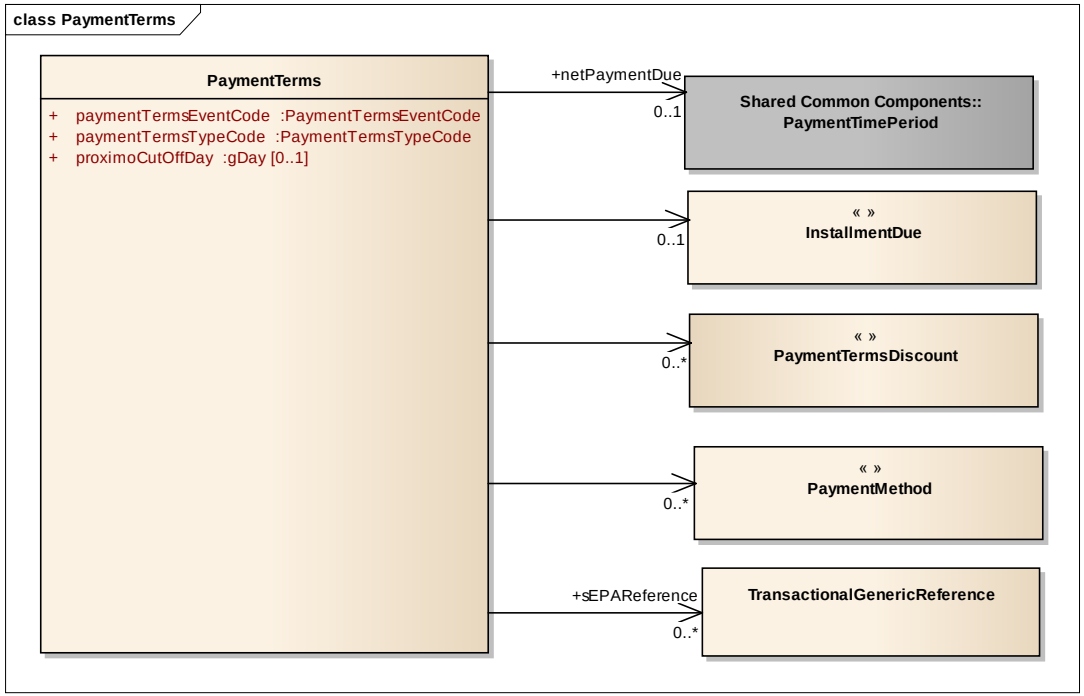
4.2.60 Payment Terms

Class Diagram



GDD Report

The content of the: PaymentTerms class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:PaymentTerms

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PaymentTerms				Terms and conditions by which a payment has been or will be made.	
Association		InstallmentDue	0..1	Information on how the amount to be paid will be split into multiple parts.	
Association		PaymentTermsDiscount	0..*	Additional information on discounts that may be applied to the payment depending on the way the payment is being made for example - 2 percent in 10 days, net 30 -.	

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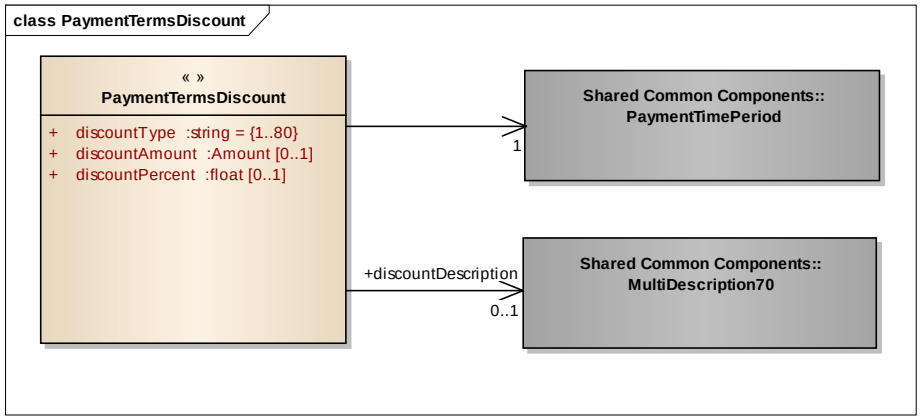
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		PaymentMethod	0..*	The payment method used in the payment terms.	
Association	netPaymentDue	PaymentTimePeriod	0..1	A time period specifying when the payment is due.	
Attribute	paymentTermsEventCode	PaymentTermsEventCode	1..1	A code providing the event used as the basis to determine the payment dates, for example RECEIPT_OF_GOODS	
Attribute	paymentTermsTypeCode	PaymentTermsTypeCode	1..1	The type of payment term expressed as a code, for example DISCOUNT.	
Attribute	proximoCutOffDay	gDay	0..1	The day of the month the payment becomes due.	
Association	sEPAReference	TransactionalGenericReference	0..*	A reference required in the Single Euro Payments Area - SEPA, such as Creditor Reference or Mandate Reference.	WR 16-000071

4.2.61 Payment Terms Discount

Class Diagram



GDD Report

The content of the: PaymentTermsDiscount class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:PaymentTermsDiscount

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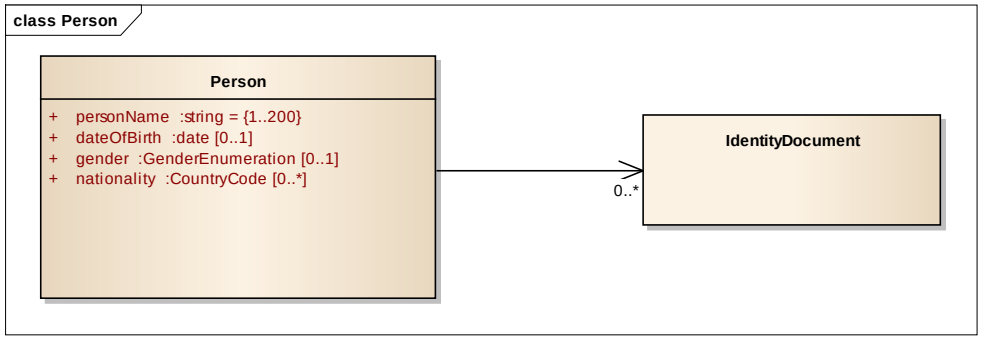
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PaymentTermsDiscount				Information on a discount specified in a payment term. Information on discounts that may be applied to the payment depending on the way the payment is being made for example "2 percent in 10 days, net 30".	
Association		PaymentTimePeriod	1	Information on a payment time period determining the applicability of the discount.	
Association	discountDescription	MultiDescription70	0..1	A text field describing the discount.	
Attribute	discountType	string	1..1	A string value that specifies the type of payment discount for example "2 percent in 10 days, net 30".	
Attribute	discountAmount	Amount	0..1	The deduction represented as an amount.	
Attribute	discountPercent	float	0..1	The deduction represented as a percentage.	

4.2.62 Person

Class Diagram



GDD Report

The content of the: Person class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:Person

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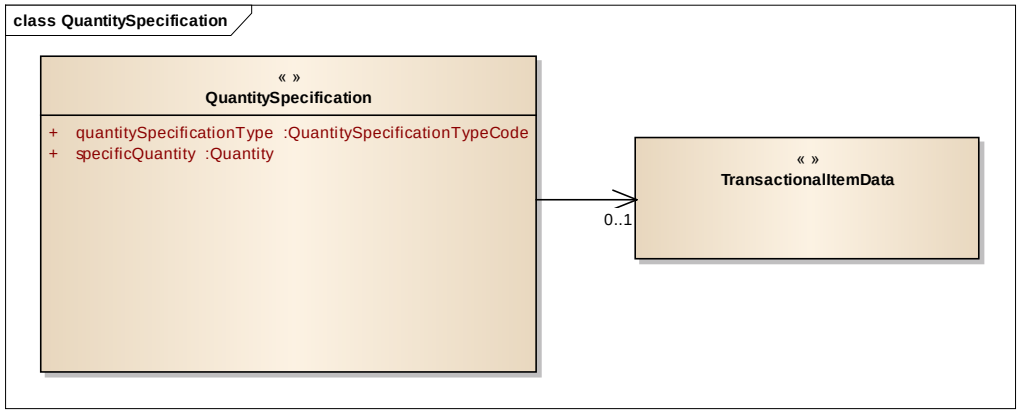
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Person				A specific human being	
Association		IdentityDocument	0..*	Document, which may be used to verify aspects of this person's personal identity or of this person's relationship with an organisation. If issued in the form of a small, mostly standard-sized card, it is usually called an identity card (IC).	
Attribute	personName	string	1..1	Text used to identify the person, such as the family name and given name.	
Attribute	dateOfBirth	date	0..1	Calendar date on which the person was born.	
Attribute	gender	GenderEnumeration	0..1	Code specifying the sex of the person.	
Attribute	nationality	CountryCode	0..*	The status of belonging to a particular nation by birth or naturalization.	

4.2.63 Quantity Specification

Class Diagram



GDD Report

The content of the: QuantitySpecification class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:QuantitySpecification*

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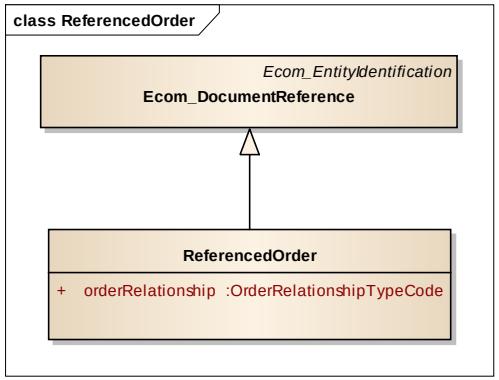
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
QuantitySpecification				Information specifying details about goods planned to be produced and or delivered.	
Association		TransactionalItemData	0..1	Dynamic characteristics used to specify individual instances of a trade item, such as the best before date, batch number or serial number.	
Attribute	quantitySpecificationType	QuantitySpecificationTypeCode	1..1	Code specifying the type of planning information that is being provided.	
Attribute	specificQuantity	Quantity	1..1	Quantity of goods planned to be delivered or produced.	

4.2.64 Referenced Order

Class Diagram



GDD Report

The content of the: ReferencedOrder class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ReferencedOrder*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ReferencedOrder				Specifies reference to related purchase order message (or messages) and the type of relationship (e.g. dependent, related, etc.).	

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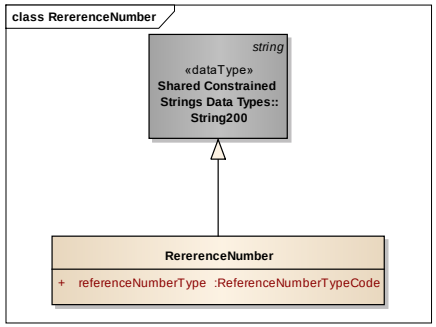
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Generalization		Ecom_DocumentReference			
Attribute	orderRelationship	OrderRelationshipTypeCode	1..1		

4.2.65 Reference Number

Class Diagram



GDD Report

The content of the ReferenceNumber class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ReferenceNumber

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
RererenceNumber				A number providing reference defined in the ReferenceNumberTypeCode list.	
Generalization		String200			
Attribute	referenceNumberType	ReferenceNumberTypeCode	1..1	Specifies the type of the reference number.	

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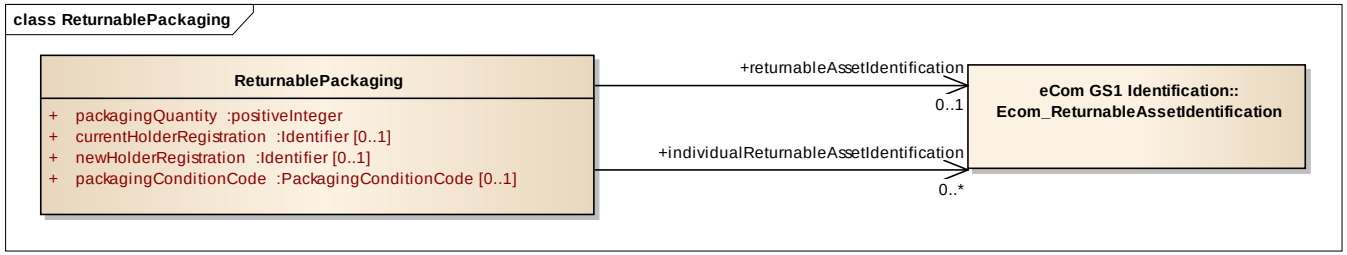
4.2.66 Returnable Packaging

Class Diagram



GDD Report

The content of the: ReturnablePackaging class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ReturnablePackaging*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ReturnablePackaging				Provides detailed information for the administration of returnable packaging.	
Association	individualReturnableAssetIdentification	Ecom_ReturnableAssetIdentification	0..*	The returnable asset identifier for an individual piece of returnable packaging.	WR 12-000199
Association	returnableAssetIdentification	Ecom_ReturnableAssetIdentification	0..1	Information used to identify the returnable packaging.	
Attribute	packagingQuantity	positiveInteger	1..1	The number of packaging units (that are returnable)	
Attribute	currentHolderRegistration	Identifier	0..1	Identification of the current administrative holder of the returnable packaging.	
Attribute	newHolderRegistration	Identifier	0..1	Identification of the party the returnable packaging is being transferred to.	
Attribute	packagingConditionCode	PackagingConditionCode	0..1	Code specifying the quality status of the returnable packaging.	

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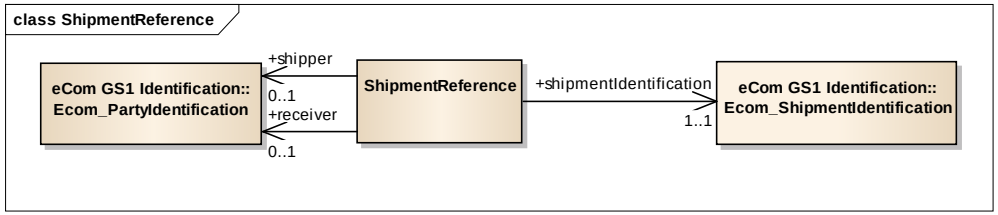
4.2.67 Shipment Reference

Class Diagram



GDD Report

The content of the: ShipmentReference class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ShipmentReference*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ShipmentReference				Reference to details of shipment.	
Association	receiver	Ecom_PartyIdentification	0..1	A party who engages in receiving goods. In a commercial scenario this would be the customer.	
Association	shipper	Ecom_PartyIdentification	0..1	A party who engages in shipping goods. In a commercial scenario this would be the supplier.	
Association	shipmentIdentification	Ecom_ShipmentIdentification	1..1	Information used to identify a shipment.	

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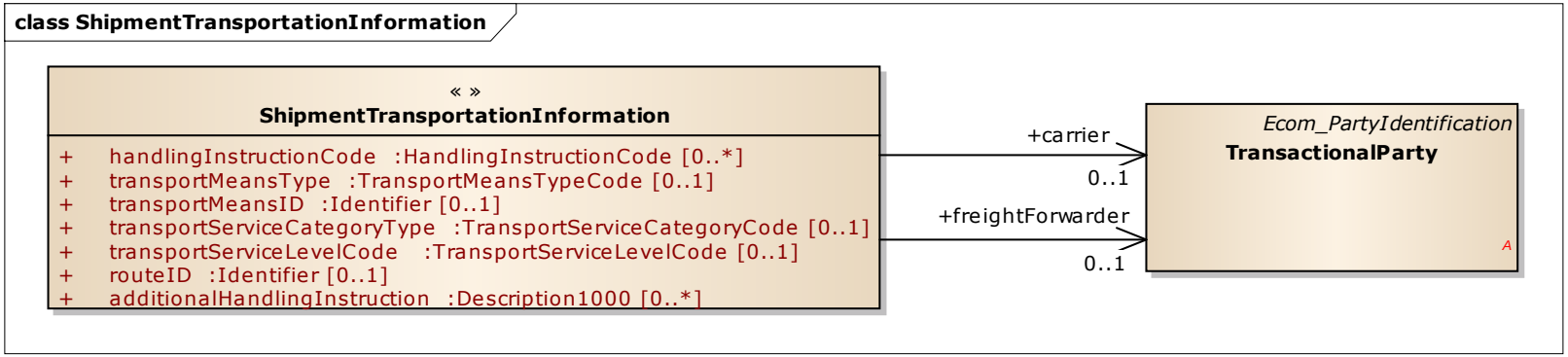
4.2.68 Shipment Transportation Information

Class Diagram



GDD Report

The content of the: ShipmentTransportationInformation class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ShipmentTransportationInformation*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ShipmentTransportationInformation				Detailed information on the transportation of a shipment.	
Association	freightForwarder	TransactionalParty	0..1	Party that arranges the carriage of goods including connected services and/or associated formalities on behalf of the shipper (consignor) or consignee.	
Association	carrier	TransactionalParty	0..1	Uniquely identifies the entity that transports the shipment.	
Attribute	handlingInstructionCode	HandlingInstructionCode	0..*	Code identifying handling instructions for this shipment, such as where or how specified packages or containers are to be loaded on a means of transport. Handling instructions can include haulage/ pickup and or delivery instruction/ temperature/humidity instructions	

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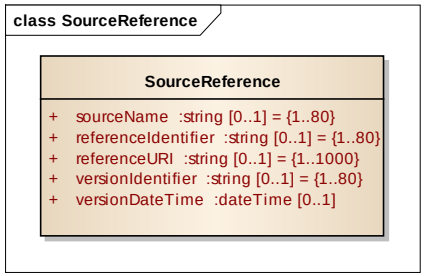
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	transportMeansType	TransportMeansTypeCode	0..1	Code identifying the means of transport: the type of vehicle, aircraft, vessel or other device used for the transport of goods. The means of transport has a means of locomotion.	
Attribute	transportMeansID	Identifier	0..1	Vehicle license plate/Aircraft number identifying a means of transport	
Attribute	transportServiceCategoryType	TransportServiceCategoryCode	0..1	A code specifying a type of category for this transport service.	
Attribute	transportServiceLevelCode	TransportServiceLevelCode	0..1	Code specifying the service level required for the transport of the shipment.	
Attribute	routeID	Identifier	0..1	Unique identifier of the standard route that will be used for this transport movement	
Attribute	additionalHandlingInstruction	Description1000	0..*	Provides handling instruction information that cannot be covered by the handlingInstructionCode.	WR 16-000349

4.2.69 Source Reference

Class Diagram



GDD Report

The content of the: SourceReference class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:SourceReference*

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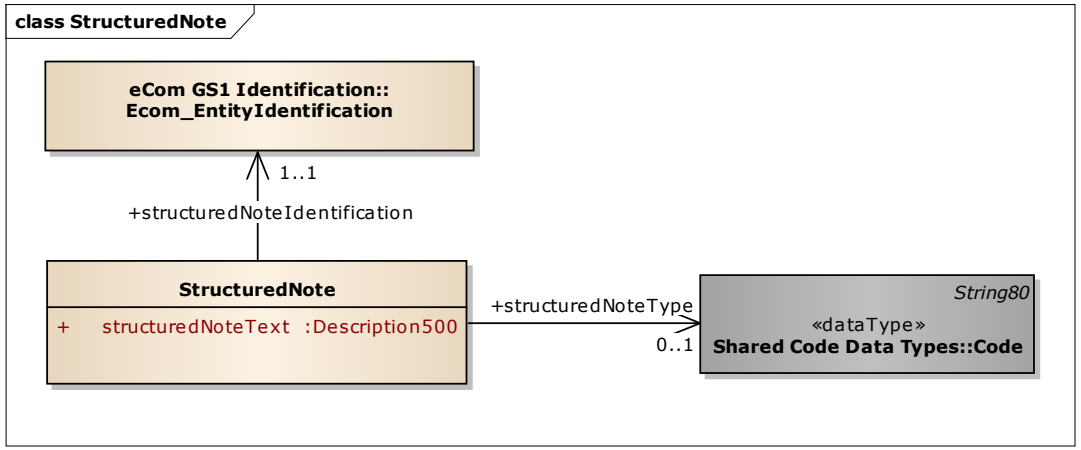
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
SourceReference				Reference to an external system containing the source data for a certain piece of exchanged information.	
Attribute	sourceName	string	0..1	A text identifying an external source (such as a database).	
Attribute	referenceIdentifier	string	0..1	A reference or identifier to information within an external source. For example the unique key of a database record where the information is stored.	
Attribute	referenceURI	string	0..1	Simple text string that identifies the name of the reference or the location of the reference on the Internet.	
Attribute	versionIdentifier	string	0..1	Number or string identifying the version of the referenced source.	
Attribute	versionDateTime	dateTime	0..1	Date and time identifying the version of the referenced source.	

4.2.70 Structured Note

Class Diagram



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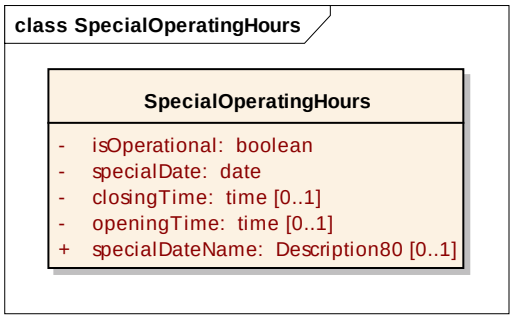
GDD Report

The content of the: StructuredNote class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:StructuredNote*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
StructuredNote				Free text used to convey information that is not processed by applications, used when there is a need to make references to specific note in other messages. In other cases, the simple 'note' element should be used.	WR 17-000311 - 17-000318
Attribute	structuredNoteText	Description500	1..1	The content of the structuredNote with mandatory 'language' attribute.	
Association	structuredNoteType	Code	0..1	The type of the structuredNote, to be defined by the user.	
Association	structuredNoteIdentification	Ecom_EntityIdentification	1..1	Unique identification of the structuredNote instance.	

4.2.71 Special Operating Hours

Class Diagram



GDD Report

The content of the: SpecialOperatingHours class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:SpecialOperatingHours*

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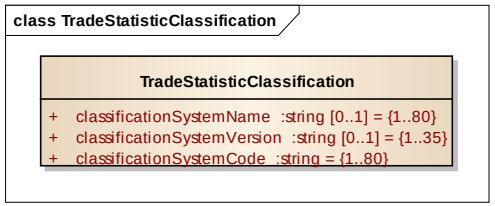
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
SpecialOperating Hours				The period during which a business or facility is operational on special days, such as holidays.	
Attribute	isOperational	boolean	1..1	Indicator specifying whether or not the business or facility is operational on the specified day.	
Attribute	specialDate	date	1..1	Date specifying the day to which the special operating hours apply.	
Attribute	closingTime	time	0..1	Time on which the business or facility will close on the specified day.	
Attribute	openingTime	time	0..1	Time on which the business or facility will open on the specified day.	
Attribute	specialDateName	Description80	0..1	Text describing the day to which the special operating hours apply. Example: Christmas.	

4.2.72 Trade Statistic Classification

Class Diagram



GDD Report

The content of the: TradeStatisticClassification class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TradeStatisticClassification*

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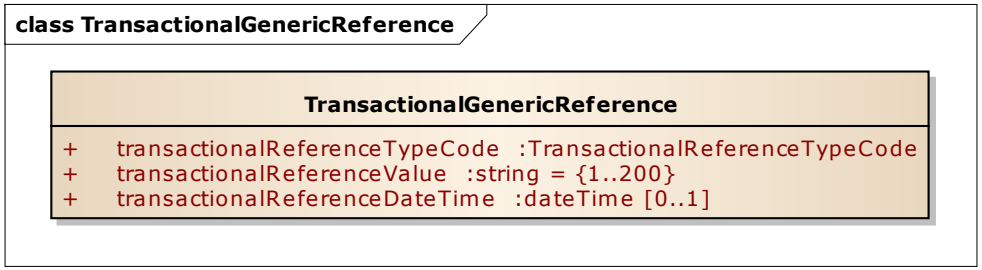
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TradeStatisticClassification				Specifies details of the trade classification system used for statistical purposes.	
Attribute	classificationSystemName	string	0..1	Name of the trade classification system used.	
Attribute	classificationSystemVersion	string	0..1	Version of the trade classification system used.	
Attribute	classificationSystemCode	string	1..1	Trade classification code.	

4.2.73 Transactional Generic Reference



GDD Report

The content of the: TransactionalGenericReference class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransactionalGenericReference*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransactionalGenericReference				Reference to an associated information in support of related business processes. E.g. any kind of internal reference, such as a cost center. The type of references are defined in the TransactionalReferenceTypeCode list.	

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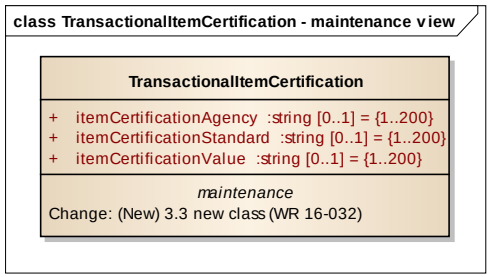
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	transactionalReferenceValue	String200	1..1	Contains the reference value	
Attribute	transactionalReferenceTypeCode	transactionalReferenceTypeCode	1..1	Code specifying the type of reference.	
Attribute	transactionalReferenceDateTime	dateTime	0..1	The date and time when the transactional reference document had been issued.	WR 17-000037 17-000311 - 17-000318

4.2.74 Transactional Item Certification

Class Diagram



GDD Report

The content of the: TransactionalItemCertification class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransactionalItemCertification*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransactionalItemCertification				Information about certification standards to which the transactional trade item complies.	
Attribute	itemCertificationAgency	string	0..1	Name of the organization issuing the certification standard or other requirement being met.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	itemCertificationStandard	string	0..1	Name of the certification standard. Free text. Example: Organic product.	
Attribute	itemCertificationValue	string	0..1	The product's certification standard value. E.g. DE-OKO-006	

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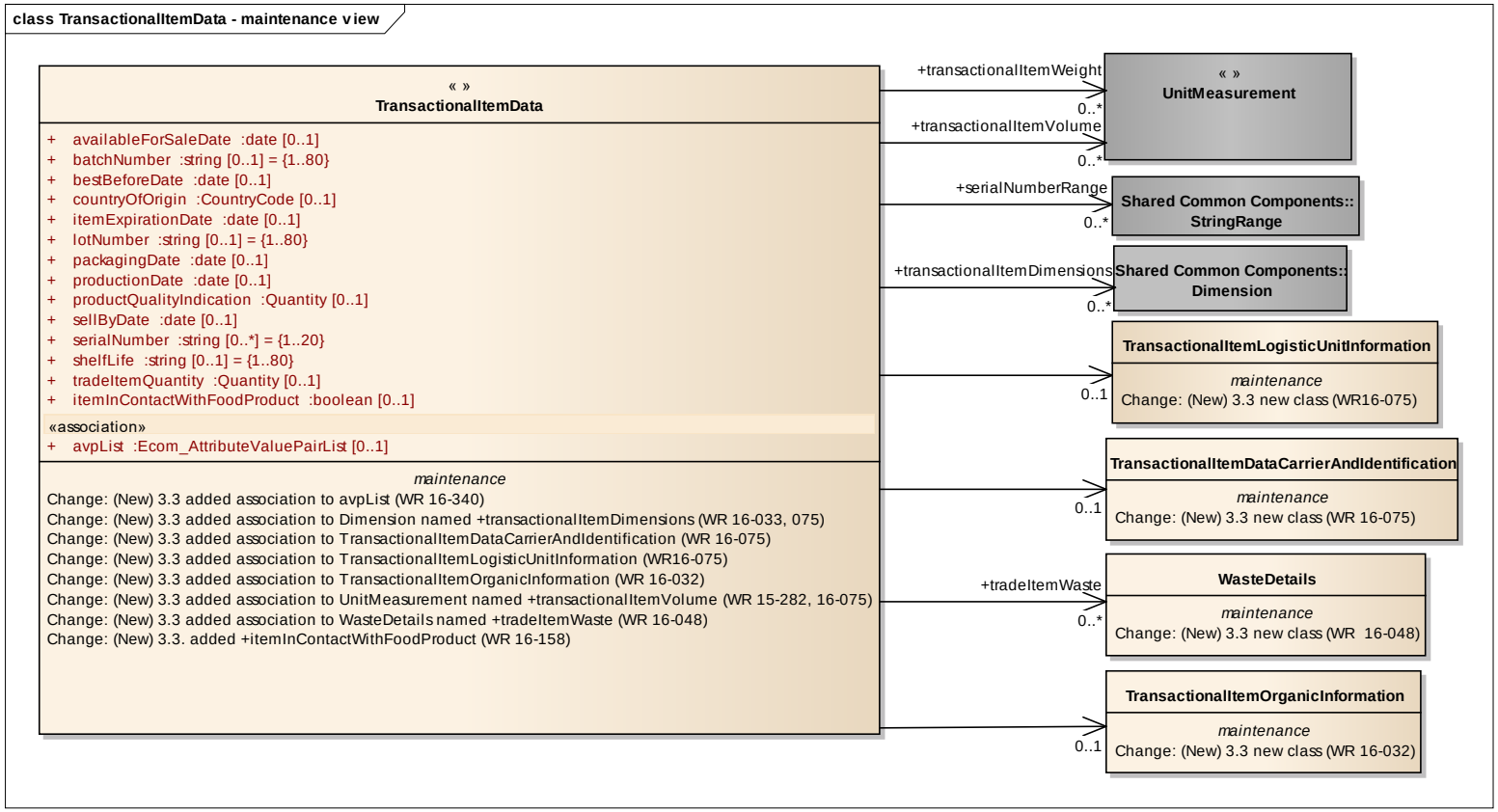
4.2.75 Transactional Item Data

Class Diagram



GDD Report

The content of the: TransactionalItemData class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransactionalItemData*

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransactionalItemData				Dynamic characteristics used to specify individual instances of a trade item, such as the best before date, batch number or serial number.	
Association	transactionalItemDimensions	Dimension	0..1	Dimensions of the transactional trade item: depth, height, width	
Association	transactionalItemVolume	UnitMeasurement	0..*	Information on the volume of the specified items.	
Association		TransactionalItemOrganicInformation	0..1	Provides information about whether or not the trade item is organic, with optional organic certification information.	
Association	transactionalItemWeight	UnitMeasurement	0..*	Information on the weight of the specified items.	
Association	serialNumberRange	StringRange	0..*	The minimum and maximum value of one or more ranges of serial numbers related to the specified items.	
Association		TransactionalItemDataCarrierAndIdentification	0..1	Provides information about GS1 Identifier and Data Carriers associated with the trade item.	
Association	tradeItemWaste	WasteDetails	0..*	Provides details of waste generated by the trade item.	
Association		TransactionalItemLogisticUnitInformation	0..1	Specifies packaging parameters of a trade item for transport and storage purposes.	
Attribute	availableForSaleDate	date	0..1	The date the item is available for sale.	
Attribute	batchNumber	string	0..1	A batch unites products or items that have undergone or are grouped together to undergo the same transformation process, not necessarily a production process.	
Attribute	bestBeforeDate	date	0..1	The date before which the product is best used or consumed. It is a statement about quality.	
Attribute	countryOfOrigin	CountryCode	0..1	Country from which the goods are supplied.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	itemExpirationDate	date	0..1	The date after which the product should not be used or consumed. Its meaning is determined based on the trade item context (e.g., for food, the date will indicate the possibility of a direct health risk resulting from use of the product after the date, for pharmaceutical products, it will indicate the possibility of an indirect health risk resulting from the ineffectiveness of the product after the date). It is often referred to as "use by date" or "maximum durability date."	
Attribute	lotNumber	string	0..1	A distinctive combination of numbers and/or letters from which the complete history of the manufacture, processing, packaging, coding and distribution of a batch can be determined.	
Attribute	packagingDate	date	0..1	The date on which the packaging of a product took place.	
Attribute	productionDate	date	0..1	The date that the product was produced.	
Attribute	productQualityIndication	Quantity	0..1	Value used to indicate the quality, such as grade or strength, of a specific batch of products.	
Attribute	sellByDate	date	0..1	The date before or on which, the product should be sold.	
Attribute	serialNumber	string	0..*	A unique identifier assigned to a specific trade item.	
Attribute	shelfLife	string	0..1	The length of time a material, substance, product, or reagent can be stored under specified environmental conditions and continue to meet all applicable specification requirements and/or remain suitable for its intended function.	
Attribute	tradeItemQuantity	Quantity	0..1	The total number of individual trade items being specified.	

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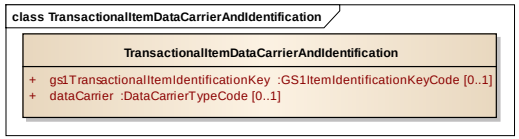
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	avpList	Ecom_AttributeValue PairList	0..1	Temporary attributes introduced between minor versions.	
Attribute	itemInContactWithFoodProduct	boolean	0..1	States weather or not the trade item can come into contact with food products.	

4.2.76 Transactional Item Data Carrier and Identification

Class Diagram



GDD Report

The content of the: TransactionalItemDataCarrierAndIdentification class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransactionalItemDataCarrierAndIdentification

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransactionalItemDataCarrierAndIdentification				Provides information about GS1 Identifier and Data Carriers associated with the trade item.	
Attribute	gs1TransactionalItemIdentificationKey	GS1ItemIdentificationKeyCode	0..1	Specifies the type of GS1 Identification Key.	
Attribute	dataCarrier	DataCarrierTypeCode	0..1	A means to represent data in a machine readable form.	

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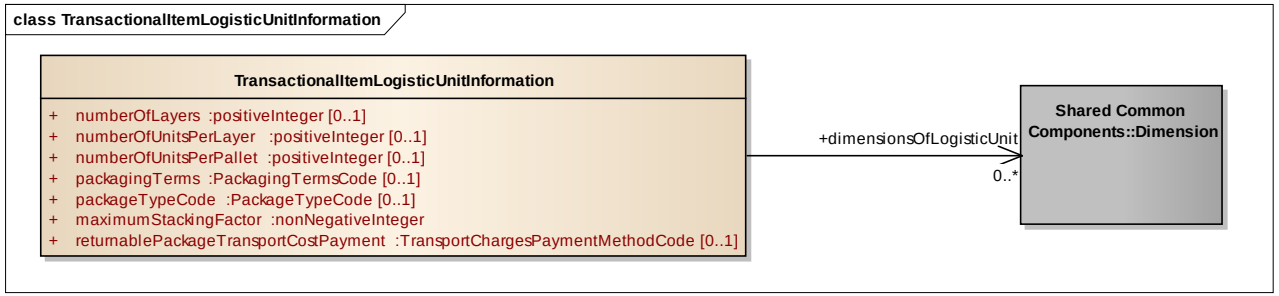
4.2.77 Transactional Item Logistic Unit Information

Class Diagram



GDD Report

The content of the: TransactionalItemLogisticUnitInformation class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransactionalItemLogisticUnitInformation

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransactionalItemLogisticUnitInformation				Specifies packaging parameters for transport and storage purposes.	
Association	dimensionsOfLogisticUnit	Dimension	0..*	Information specifying the physical dimensions of a specific logistic unit.	
Attribute	numberOfLayers	positiveInteger	0..1	Number of layers of a product or products within a package, container, pallet, etc.	
Attribute	numberOfUnitsPerLayer	positiveInteger	0..1	Number of units of a product or package within one layer of a package, container, pallet, etc.	
Attribute	numberOfUnitsPerPallet	positiveInteger	0..1	The number of units contained on a pallet calculated by multiplying the number of units per layer by the number of layers on a pallet.	
Attribute	packagingTerms	PackagingTermsCode	0..1	Specifies packaging terms and conditions.	

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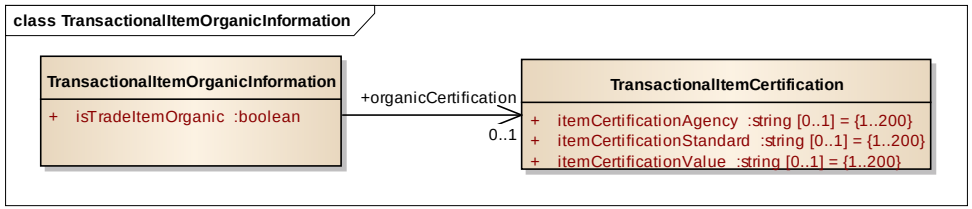
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	packageTypeCode	PackageTypeCode	0..1	The package Type (for example case, display) associated with the item contents of a single despatch unit.	
Attribute	maximumStackingFactor	nonNegativeInteger	1..1	A factor that determines the maximum stacking for the product. Indicates the number of levels the product may be stacked.	
Attribute	returnablePackageTransportCostPayment	TransportChargesPaymentMethodCode	0..1		

4.2.78 Transactional Item Organic Information

Class Diagram



GDD Report

The content of the: TransactionalItemOrganicInformation class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransactionalItemOrganicInformation*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransactionalItemOrganicInformation				Provides information about whether or not the trade item is organic, with optional organic certification information.	
Association	organicCertification	TransactionalItemCertification	0..1	Specifies information about the organic trade item certification.	
Attribute	isTradeItemOrganic	boolean	1..1	Information about whether or not the trade item is organic.	

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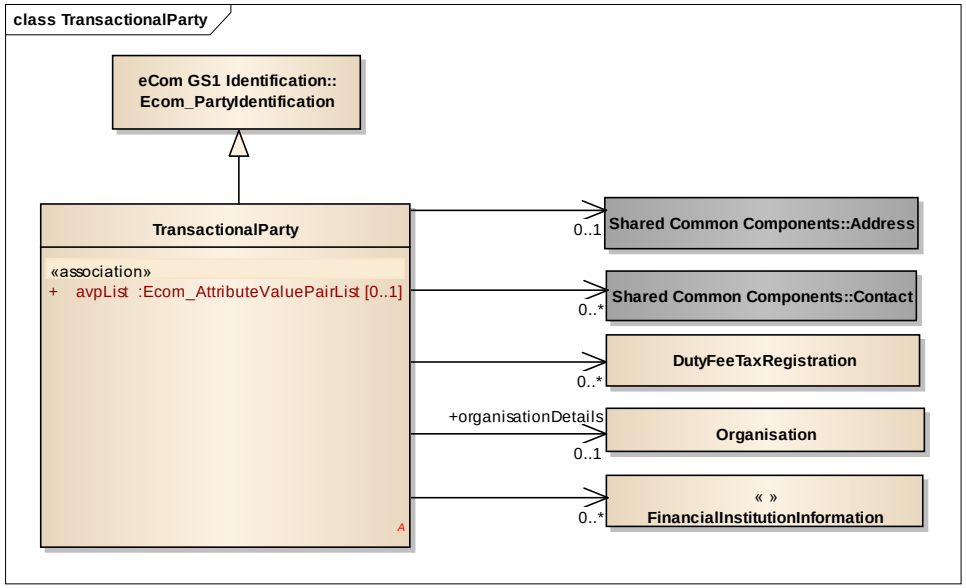
4.2.79 Transactional Party

Class Diagram



Important: Use of the GLN is recommended in B2B scenarios.

GDD Report

The content of the: TransactionalParty class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransactionalParty*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransactionalParty				Identification of and additional information about a party involved in a business transaction.	
Association		Address	0..1	Address of the party involved in the business transaction.	
Generalization		Ecom_PartyIdentification			
Association		FinancialInstitutionInformation	0..*	Information on the financial institution(s) where the party holds an account.	

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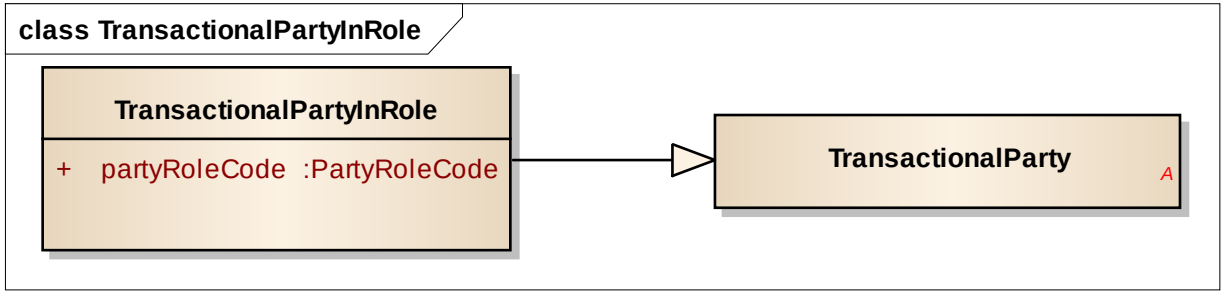
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		DutyFeeTaxRegistration	0..*	Information about the registration for a particular duty, tax or fee, for the party involved in the business transaction.	
Association	organisationDetails	Organisation	0..1	Information about the organisation of the party involved in the business transaction.	
Association		Contact	0..*	Information about the contact for the party involved in the business transaction.	
Attribute	avpList	Ecom_AttributeValuePairList	0..1	Temporary attributes introduced between minor versions.	

4.2.80 Transactional Party In Role

Class Diagram



GDD Report

The content of the: TransactionalPartyInRole class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransactionalPartyInRole*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransactionalPartyInRole				The identification of a party, by GLN, in a specific party role.	
Generalization		TransactionalParty			
Attribute	partyRoleCode	PartyRoleCode	1..1	A code that identifies the role of a party in a business transaction.	

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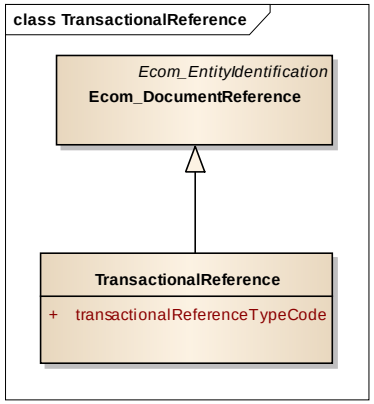
4.2.81 Transactional Reference

Class Diagram



GDD Report

The content of the: TransactionalReference class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransactionalReference*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransactionalReference				Reference to associated information in support of related business processes. E.g. a purchase order, a return authorization number.	New class added in MR3 to replace some uses of TypedEntityIdentification
Generalization		Ecom_DocumentReference			
Attribute	transactionalReferenceTypeCode		1..1	Code specifying the type of reference.	

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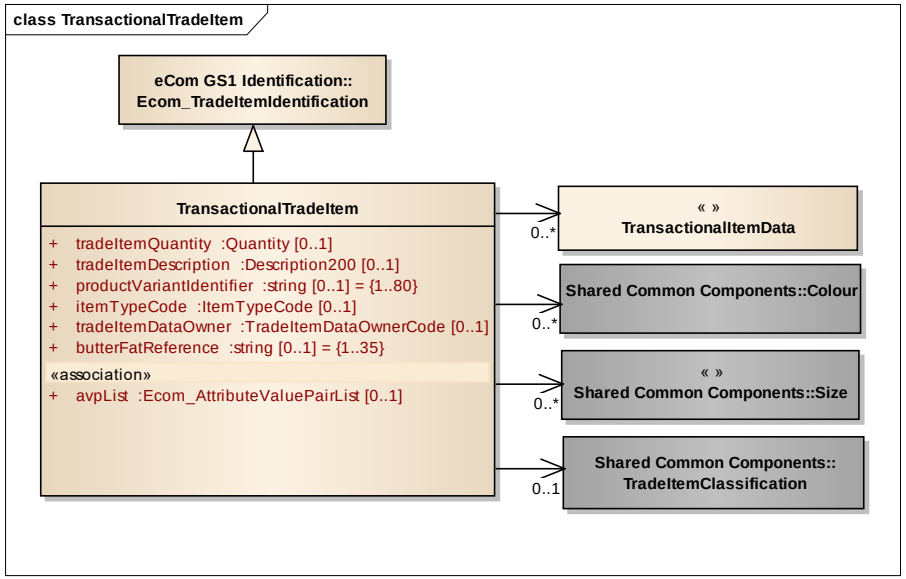
4.2.82 Transactional Trade Item

Class Diagram



GDD Report

The content of the: TransactionalTradeItem class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransactionalTradeItem*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransactionalTradeItem				A trade item is any item (product or service) upon which there is a need to retrieve pre-defined information and that may be priced, or ordered, or invoiced at any point in any supply chain.	
Generalization		Ecom_TradeItemIdentification			
Association		Size	0..*	The physical dimensions or proportions of the transactional trade item depicted as a code or a description.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		TradeItemClassification	0..1	Specifies the product class to which a trade item belongs and the classification system being applied.	
Association		TransactionalItemData	0..*	Dynamic characteristics used to specify individual instances of the trade item, such as the best before date, batch number or serial number.	
Association		Colour	0..*	Information specifying the colour of the trade item.	
Attribute	tradeItemQuantity	Quantity	0..1	Specification of the number of units of the trade item. To be applied when no other quantity information, such as the requested quantity or the billed quantity, is present.	
Attribute	tradeItemDescription	Description200	0..1	Textual description of the trade item.	
Attribute	productVariantIdentifier	string	0..1	Text identifying a variant of the product, for example for promotional reasons.	
Attribute	itemTypeCode	ItemTypeCode	0..1	Code specifying the trade item type.	
Attribute	tradeItemDataOwner	TradeItemDataOwnerCode	0..1	Specifies who owns the set of trade item transactional data.	
Attribute	avpList	Ecom_AttributeValuePairList	0..1	Temporary attributes introduced between minor versions.	

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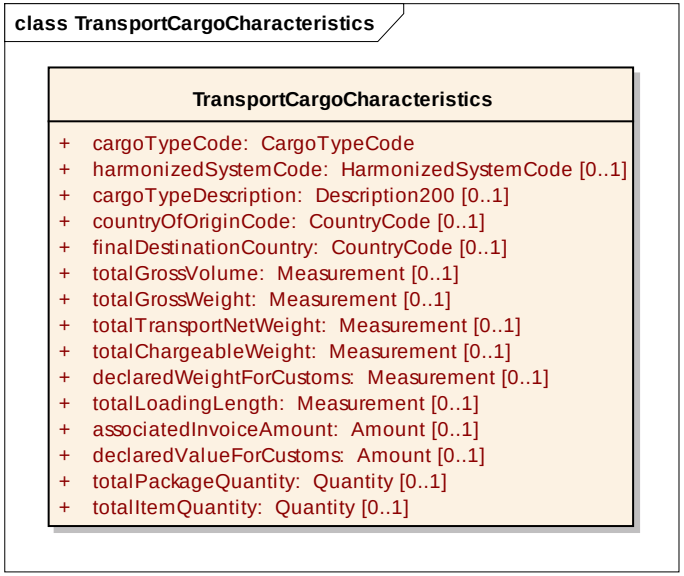
4.2.83 Transport Cargo Characteristics

Class Diagram



GDD Report

The content of the: TransportCargoCharacteristics class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransportCargoCharacteristics*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransportCargoCharacteristics				Information on a load of goods being transported.	
Attribute	cargoTypeCode	CargoTypeCode	1..1	Code specifying the classification of a type of cargo for example hazardous cargo.	
Attribute	harmonizedSystemCode	HarmonizedSystemCode	0..1	Code specifying the cargo according to the Harmonised Commodity Description and Coding System (HS) of tariff nomenclature, developed and maintained by the World Customs Organization (WCO)	
Attribute	cargoTypeDescription	Description200	0..1	Free text specifying the classification of a type of cargo.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	countryOfOriginCode	CountryCode	0..1	The country where this transport cargo has been manufactured.	
Attribute	finalDestinationCountry	CountryCode	0..1	The country considered to be the final destination for this transport cargo, for regulatory compliance purposes.	
Attribute	totalGrossVolume	Measurement	0..1	A measure of the volume, normally calculated by multiplying the maximum length, width, and height of the packaged goods.	
Attribute	totalGrossWeight	Measurement	0..1	A measure of the mass of the goods including the weight of transport packaging, and potentially the weight of any transport equipment.	
Attribute	totalTransportNetWeight	Measurement	0..1	A measure of the mass of the goods excluding the weight of transport packaging and excluding the weight of any transport equipment.	
Attribute	totalChargeableWeight	Measurement	0..1	Measure of the weight on which freight charges may be calculated for this transport cargo.	
Attribute	declaredWeightForCustoms	Measurement	0..1	Measure of the weight of the gods for customs declaration purposes.	
Attribute	totalLoadingLength	Measurement	0..1	Measure of the total length the goods occupy in a transport means / on a piece of transport equipment. E.g. Loading meters in a truck or trailer	
Attribute	associatedInvoiceAmount	Amount	0..1	The commercial value of the cargo	
Attribute	declaredValueForCustoms	Amount	0..1	The monetary value declared for customs purposes for this transport cargo	
Attribute	totalPackageQuantity	Quantity	0..1	Total number of logistic units (e.g. pallets) in this transport cargo.	
Attribute	totalItemQuantity	Quantity	0..1	The number of trade items on which freight charges may be calculated for this transport cargo.	

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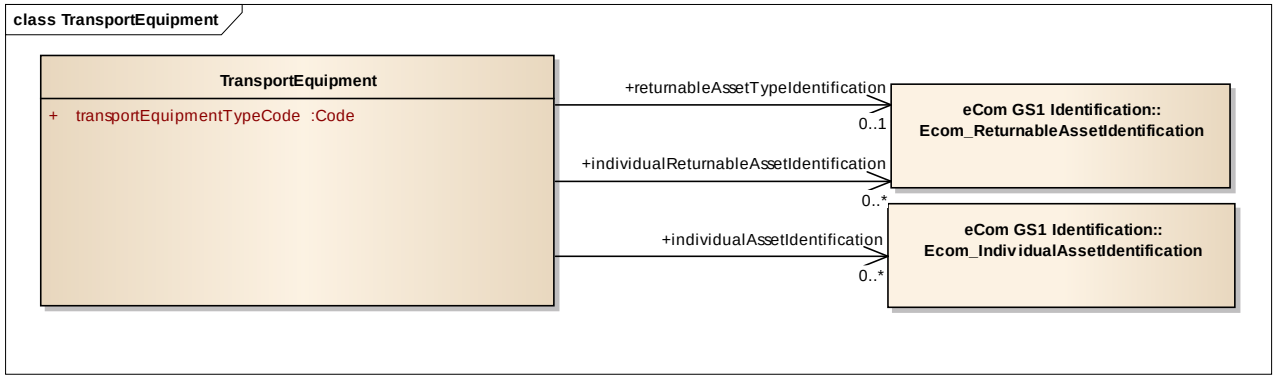
4.2.84 Transport Equipment

Class Diagram



GDD Report

The content of the: TransportEquipment class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransportEquipment*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransportEquipment				Transport equipment is a piece of equipment used to hold, protect or secure cargo for logistics purposes. Transport Equipment is to be moved using Transport Means.	
Association	individualAssetIdentification	Ecom_IndividualAssetIdentification	0..*	The individual asset identifier for an individual piece of transport equipment.	
Association	returnableAssetTypeIdentification	Ecom_ReturnableAssetIdentification	0..1	The returnable asset identifier for the type of transport equipment.	
Association	individualReturnableAssetIdentification	Ecom_ReturnableAssetIdentification	0..*	The returnable asset identifier for an individual piece of transport equipment.	
Attribute	transportEquipmentTypeCode	Code	1..1	Code specifying the transport equipment size and type. ;BRAD Transport Management TEQ1, TEQ2	

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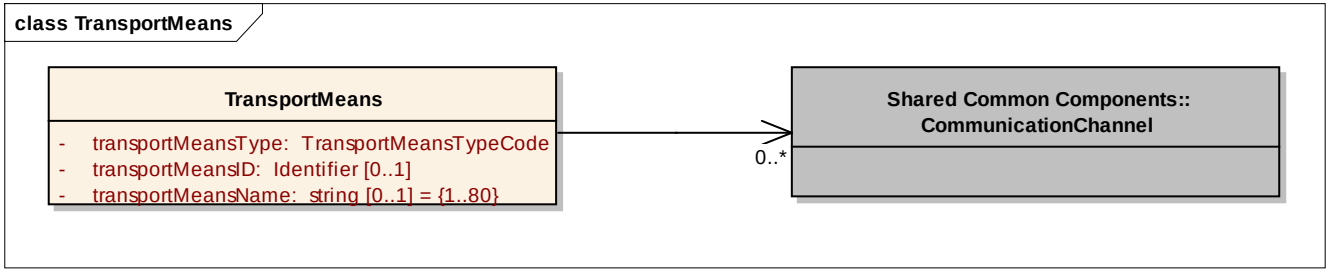
4.2.85 Transport Means

Class Diagram



GDD Report

The content of the: TransportMeans class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransportMeans*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransportMeans				A transport means is a particular device (with its own engine/power) used to convey goods or other objects from place to place during logistics cargo movements.	
Association		CommunicationChannel	0..*	The channel or manner in which a communication can be made with the transport means. E.g. telephone or email.	
Attribute	transportMeansType	TransportMeansTypeCode	1..1	Code specifying the type of vehicle, aircraft, vessel or other device used for the transport of goods.	
Attribute	transportMeansID	Identifier	0..1	The unique identifier of a particular means of transport. E.g. A license plate number or vessel id.	
Attribute	transportMeansName	string	0..1	The name, expressed as text, of a particular means of transport. E.g. The vessel name.	

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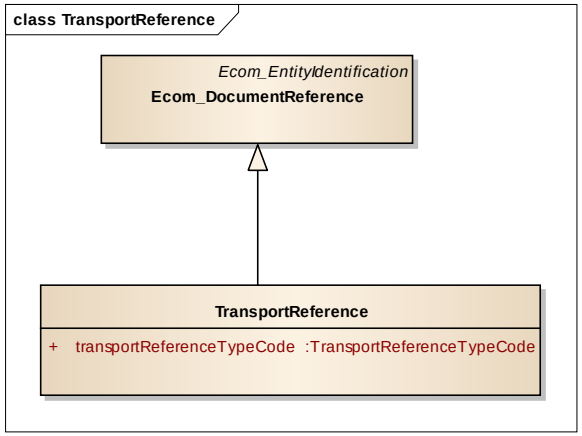
4.2.86 Transport Reference

Class Diagram



GDD Report

The content of the: TransportReference class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransportReference*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransportReference				Reference to associated information in support of related business processes. E.g. a purchase order, a bank account number.	
Generalization		Ecom_DocumentReference		Basic details identifying the referenced document or information.	
Attribute	transportReferenceTypeCode	TransportReferenceTypeCode	1..1	Code specifying the type of information that is being referred to.	

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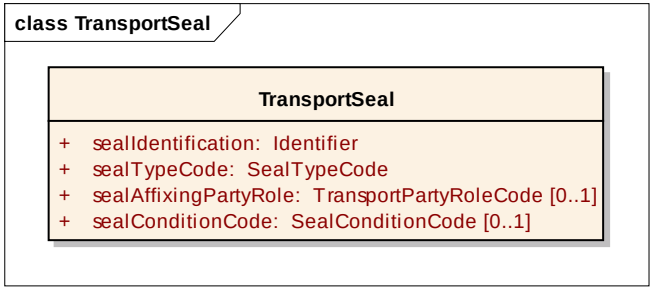
4.2.87 Transport Seal

Class Diagram



GDD Report

The content of the: TransportSeal class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransportSeal*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransportSeal				Information on the item attached to a piece of transport equipment used for closing and/or securing the cargo.	
Attribute	sealIdentification	Identifier	1..1	Provides the seal number or identification of the seal.	
Attribute	sealTypeCode	SealTypeCode	1..1	Code identifying the type of seal used on the cargo.	
Attribute	sealAffixingPartyRole	TransportPartyRoleCode	0..1	The code specifying the role of the party responsible for the sealing of this transport seal.	
Attribute	sealConditionCode	SealConditionCode	0..1	Code specifying the working condition of a seal. E.g. Damaged.	

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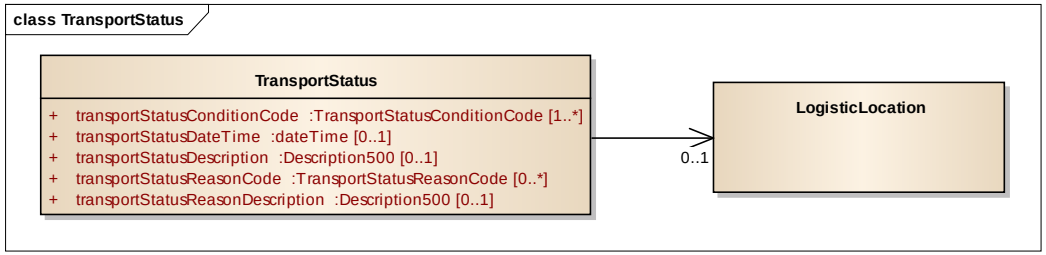
4.2.88 Transport Status

Class Diagram



GDD Report

The content of the: TransportStatus class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransportStatus*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransportStatus				Information on the transport execution status.	
Association		LogisticLocation	0..1	A location related to the reported transport status.	
Attribute	transportStatusConditionCode	TransportStatusConditionCode	1..*	The code specifying the transport status condition.	
Attribute	transportStatusDateTime	dateTime	0..1	A date time that applies to the reported transport status.	
Attribute	transportStatusDescription	Description500	0..1	The textual description of the transport status.	
Attribute	transportStatusReasonCode	TransportStatusReasonCode	0..*	Code specifying the reason for the transport status	
Attribute	transportStatusReasonDescription	Description500	0..1	A reason, expressed as text, for the transport status.	

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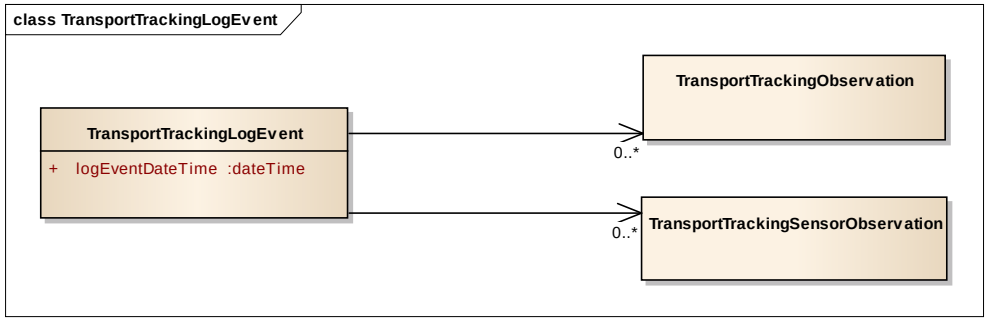
4.2.89 Transport Tracking Log Event

Class Diagram



GDD Report

The content of the: TransportTrackingLogEvent class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransportTrackingLogEvent*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransportTrackingLogEvent				A transport tracking log event is a record of a significant occurrence or happening during transport.	
Association		TransportTrackingSensorObservation	0..*	Information on one or more observations grouped by sensor.	
Association		TransportTrackingObservation	0..*	Information on one or more observations.	
Attribute	logEventDateTime	dateTime	1..1	The date time of the recorded event.;BRAD TM TTL2	

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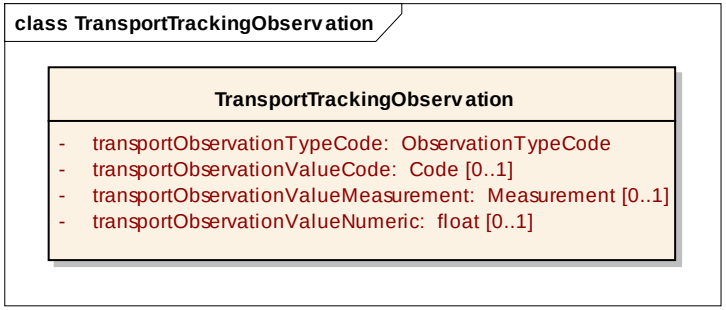
4.2.90 Transport Tracking Observation

Class Diagram



GDD Report

The content of the: TransportTrackingObservation class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransportTrackingObservation*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransportTrackingObservation				An amount, size, or extent as established by measuring during transport.	
Attribute	transportObservationTypeCode	ObservationTypeCode	1..1	Code specifying the type of observation.	
Attribute	transportObservationValueCode	Code	0..1	Coded vale of the observation.	
Attribute	transportObservationValueMeasurement	Measurement	0..1	Measurement value of the observation.	
Attribute	transportObservationValueNumeric	float	0..1	Numeric value of the observation.	

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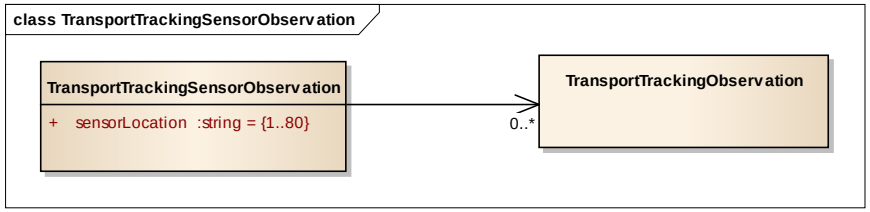
4.2.91 Transport Tracking Sensor Observation

Class Diagram



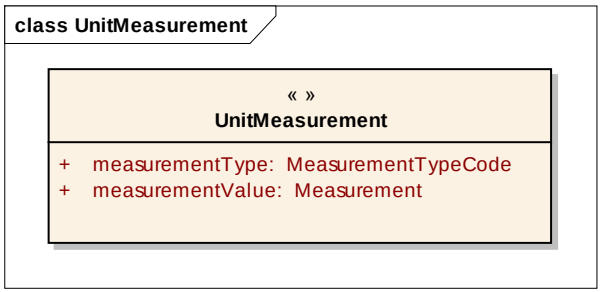
GDD Report

The content of the: TransportTrackingSensorObservation class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:TransportTrackingSensorObservation*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TransportTrackingSensorObservation				Transport tracking observations grouped by the sensor reporting the observations.	
Association		TransportTrackingObservation	0..*	The observations reported by the sensor.	
Attribute	sensorLocation	string	1..1	Text specifying the location of the sensor. For example: rear door.	

4.2.92 Unit Measurement

Class Diagram



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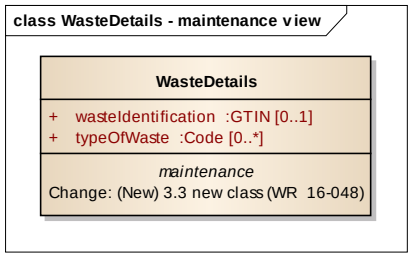
GDD Report

The content of the: UnitMeasurement class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:UnitMeasurement*

Content	Attribute/Role	Datatype/Secondaryclass	Multiplicity	Definition	Requirements
UnitMeasurement				Information specifying the weight or volume of a unit.	
Attribute	measurementType	MeasurementTypeCode	1..1	Code specifying the type of measurement, for example "Gross Weight".	
Attribute	measurementValue	Measurement	1..1	Value of the attribute measured.	

4.2.93 Waste Details

Class Diagram



GDD Report

The content of the: WasteDetails class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:WasteDetails*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
WasteDetails				Provides identification and type of waste according to required classification system.	
Attribute	typeOfWaste	Code	0..*	Provides code and description of waste type according to required classification scheme.	
Attribute	wasteIdentification	GTIN	0..1	The number identifying the type of waste.	

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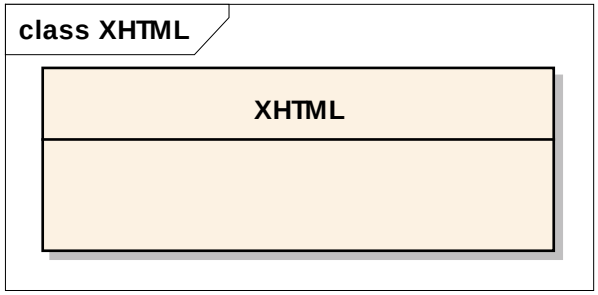
4.2.94 XHTML

Class diagram



GDD report

The content of the: XHTML class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:XHTML*

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
XHTML				Textual content formatted in the Extensible Hyper Text Markup Language (XHTML).	

Note: Reference Shared Common Library Business Message (BMS) Release 3.6 for all common information.

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4.3 Enumerations (message specific)

4.3.1 DebitCreditEnumeration

CREDIT	Not Available
DEBIT	Not Available

4.3.2 TransportPlanningDateTypeEnumeration

DELIVERY_DATE	Planning is based on the date the shipment will be delivered to the designated location.
PICKUP_DATE	Planning is based on the date the shipment will be picked up from the designated location.

4.4 Code Lists

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

Class	Codelist	GDD Link
	AdministrativeUnitTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AdministrativeUnitTypeCode
	AppointmentTimeMeasurementBasisTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AppointmentTimeMeasurementBasisTypeCode
	BusinessDocumentProcessingTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:BusinessDocumentProcessingTypeCode
	CargoTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:CargoTypeCode
	CreditReasonCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:CreditReasonCode
	CustomsWarehouseStatusCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:CustomsWarehouseStatusCode
	DangerousGoodsAttributeTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:DangerousGoodsAttributeTypeCode
	DangerousGoodsRegulationCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:DangerousGoodsRegulationCode
	DeliverDateTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:DeliverDateTypeCode
	DeliveryTimeMeasurementBasisTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:DeliveryTimeMeasurementBasisTypeCode
	DeliveryTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:DeliveryTypeCode

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Class	Codelist	GDD Link
	DemandEstimationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:DemandEstimationTypeCode
	DutyFeeTaxTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:DutyFeeTaxTypeCode
	EffectiveDateTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:EffectiveDateTypeCode
	ErrorOrWarningCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ErrorOrWarningCode
	FinancialAdjustmentReasonCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:FinancialAdjustmentReasonCode
	ForecastPurposeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ForecastPurposeCode
	ForecastTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ForecastTypeCode
	GoodsReceiptReportingCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:GoodsReceiptReportingCode
	GS1ItemIdentificationKeyCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:GS1ItemIdentificationKeyCode
	HandlingInstructionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:HandlingInstructionCode
	HarmonizedSystemCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:HarmonizedSystemCode
	IdentityDocumentTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:IdentityDocumentTypeCode
	InventoryStatusCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:InventoryStatusCode
	InventorySubLocationFunctionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:InventorySubLocationFunctionCode
	InventorySubLocationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:InventorySubLocationTypeCode
	InvoiceTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:InvoiceTypeCode
	ItemScopeTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ItemScopeTypeCode
	ItemTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ItemTypeCode
	LegalRegistrationCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:LegalRegistrationCode
	LineItemActionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:LineItemActionCode
	LocationScopeParameterTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:LocationScopeParameterTypeCode
	LocationScopeTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:LocationScopeTypeCode
	LogisticEventTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:LogisticEventTypeCode

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Class	Codelist	GDD Link
	LogisticServiceReferenceTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:LogisticServiceReferenceTypeCode
	LogisticServiceRequirementCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:LogisticServiceRequirementCode
	MarginSchemeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:MarginSchemeCode
	MaterialTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:MaterialTypeCode
	MeasurementTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:MeasurementTypeCode
	ObservationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ObservationTypeCode
	OrderInstructionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:OrderInstructionCode
	OrderRelationshipCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:OrderRelationshipTypeCode
	OrderTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:OrderTypeCode
	OutOfStockMeasurementTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:OutOfStockMeasurementTypeCode
	PackageLevelCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PackageLevelCode
	PackageTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PackageTypeCode
	PackagingConditionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PackagingConditionCode
	PackagingMarkingTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PackagingMarkingTypeCode
	PassengerCategoryCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PassengerCategoryCode
	PaymentFormatCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PaymentFormatCode
	PaymentTermsEventCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PaymentTermsEventCode
	PerformanceMeasureTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PerformanceMeasureTypeCode
	PeriodicityTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PeriodicityTypeCode
	PlanBucketSizeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PlanBucketSizeCode
	PlanCommitmentLevelCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PlanCommitmentLevelCode
	PrintingInstructionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PrintingInstructionCode
	PurchaseConditionsCommitmentTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PurchaseConditionsCommitmentTypeCodem
	QualityControlCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:QualityControlCode

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Class	Codelist	GDD Link
	QuantitySpecificationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:QuantitySpecificationTypeCode
	ReceivingConditionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ReceivingConditionCode
	ReferenceNumberTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ReferenceNumberTypeCode
	RemainingQuantityStatusCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:RemainingQuantityStatusCode
	ResponseStatusCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ResponseStatusCode
	RevisionStatusCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:RevisionStatusCode
	SalesMeasurementTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:SalesMeasurementTypeCode
	SealConditionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:SealConditionCode
	SealTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:SealTypeCode
	ServiceLevelBasisTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ServiceLevelBasisTypeCode
	ServiceLevelMeasurementBasisTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ServiceLevelMeasurementBasisTypeCode
	SettlementHandlingTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:SettlementHandlingTypeCode
	SettlementTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:SettlementTypeCode
	SpecialServiceTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:SpecialServiceTypeCode
	StockRequirementTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:StockRequirementTypeCode
	StructureTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:StructureTypeCode
	SymbolComponentCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:SymbolComponentCode
	SynchronisationCalculationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:SynchronisationCalculationTypeCode
	DutyFeeTaxExemptionReasonCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:DutyFeeTaxExemptionReasonCode
	TimePeriodScopeTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TimePeriodScopeTypeCode
	TradeItemDataOwnerCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TradeItemDataOwnerCode
	TransactionalReferenceTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TransactionalReferenceTypeCode
	TransportInstructionStatusReasonCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TransportInstructionStatusReasonCode

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Class	Codelist	GDD Link
	TransportMeansTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TransportMeansTypeCode
	TransportModeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TransportModeCode
	TransportPartyRoleCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TransportPartyRoleCode
	TransportPaymentMethodCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TransportPaymentMethodCode
	TransportReferenceTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TransportReferenceTypeCode
	TransportServiceCategoryCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TransportServiceCategoryCode
	TransportServiceConditionTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TransportServiceConditionTypeCode
	TransportServiceLevelCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TransportServiceLevelCode
	TransportStatusConditionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TransportStatusConditionCode
	TransportStatusReasonCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TransportStatusReasonCode
	UNLocationCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:UNLocationCode
	VarianceReasonCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:VarianceReasonCode
	WarehouseABCClassificationCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:WarehouseABCClassificationCode

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5 Business Message Examples

Not applicable

6 Implementation 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

Changes
BMS Public review: ▪ changed definition of tradeItemQuantity in TransactionalTradeItem. Also updated the GDD report, since it had 1..1 instead of 0..1 as multiplicity. The class diagram was correct. ▪ Made cardinality of LogisticUnitIdentification in LogisticUnits 0..1 instead of 1..1. ▪ Added new code data type: DeliveryTypeCode ▪ Added new code list: DeliveryTypeCode. ▪ Added new code value PENDING to code list LineItemActionCode. ▪ Added role name deliveryTermsLocation to association DeliveryTerms → LogisticLocation
Added classes: ▪ InvoiceDocumentReference ▪ PartyReference ▪ SourceReference ▪ TransactionalReference ▪ XHTML Added data types: ▪ DataCarrierTypeCode ▪ DebitCreditEnumeration ▪ FinancialAdjustmentReasonCode ▪ GDTI ▪ InventoryActivityTypeCode ▪ InventoryMovementTypeCode ▪ MaterialTypeCode ▪ PlanBucketSizeCode ▪ SettlementAdjustmentReferenceTypeCode ▪ SettlementHandlingTypeCode ▪ StockRequirementTypeCode ▪ StructureTypeCode ▪ SymbolComponentCode ▪ TradeitemUnitDescriptorCode

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Changes
▪ TransactionalReferenceTypeCode ▪ TransportPlanningDateTypeEnumeration <u>Added codelists:</u> ▪ DataCarrierTypeCode ▪ DebitCreditEnumeration ▪ FinancialAdjustmentReasonCode ▪ InventoryActivityTypeCode ▪ InventoryMovementTypeCode ▪ MaterialTypeCode ▪ PlanBucketSizeCode ▪ SettlementHandlingTypeCode ▪ StockRequirementTypeCode ▪ StructureTypeCode ▪ SymbolComponentCode ▪ TradeitemUnitDescriptorCode ▪ TransactionalReferenceTypeCode ▪ TransportPlanningDateTypeEnumeration
Removed data type and code list for SettlementAdjustmentReferenceTypeCode
For Publication ▪ Added Copyright R in GS1 Logo ▪ Changed Status to Approved ▪ Removed year reference in footer copyright statement ▪ Added Adherence to AG Principles Section ▪ Replaced code I with AND in AllowanceChargeTypeCode

7.2 BMS Release 3.1

Changes
▪ Removed PaymentTermsTypeCode and AllowanceChargeTypeCode.data types and associated code lists. Added to Shared Common. BSD. ▪ Removed AllowanceOrChargeTypeEnumeration data type and associated code list. Added to Shared Common BSD.
new classes: ▪ AdministrativeUnit ▪ CarrierPickUpDropOffDetails ▪ InventorySubLocation ▪ InventoryDutyFeeTaxStatus New data types and codelists: ▪ AdministrativeUnitTypeCode ▪ CustomsWarehouseStatusCode ▪ InventorySubLocationFunctionCode ▪ InventorySubLocationTypeCode ▪ PackagingConditionCode Updated code lists: ErrorOrWarningCode: ▪ Added CONFIRMED_BUT_DELAY_EXPECTED TransportServiceLevelCode: ▪ Added RETURN_SERVICE

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Changes

Updated Code List InventoryMovementTypeCode, added:

- INCREASE, DECREASE

updated classes:

class LogisticUnit - maintenance view

LogisticUnit

- grossWeight: Measurement [0..1]
- packageLevelCode: PackageLevelCode [0..1]
- packageTypeCode: PackageTypeCode [0..1]
- tradeItemQuantity: Quantity [0..1]

maintenance

Change: (Verified) 3.1 added association UnitMeasurement

class LogisticUnits - maintenance view

« »
LogisticUnits

+ levelIdentification: positiveInteger [0..1]
+ parentLevelIdentification: positiveInteger [0..1]
+ packageTypeCode: PackageTypeCode [0..1]
+ childPackageTypeCode: PackageTypeCode [0..1]
+ quantityOfChildren: positiveInteger [0..1]

maintenance

Change: (Verified) 3.1 added association to ReturnablePackaging (WR 12-199)

class ReturnablePackaging - maintenance view

ReturnablePackaging

+ packagingQuantity: positiveInteger
+ currentHolderRegistration: Identifier [0..1]
+ newHolderRegistration: Identifier [0..1]
+ packagingConditionCode: PackagingConditionCode [0..1]

maintenance

Change: (Verified) 3.1 existing association to ReturnableAssetIdentification 1..1 ==> 0..1 (WR 12-199)
Change: (Verified) 3.1 added association +individualReturnableAssetIdentification (WR 12-199)
Change: (Verified) 3.1 added packagingConditionCode (BRAD WIO-ecom-2)

class TransactionalTradeItem - maintenance view

TransactionalTradeItem

+ tradeItemQuantity: Quantity [0..1]
+ tradeItemDescription: Description200 [0..1]
+ productVariantIdentifier: string [0..1] = {1..80}

maintenance

Change: (Verified) 3.1 added productVariant (BRAD WIO-ecom-3)

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Changes

class LogisticService - Maintenance View

LogisticService

+ logisticServiceRequirementCode: LogisticServiceRequirementCode
+ cashOnDeliveryAmount: Amount [0..1]
+ insuranceValue: Amount [0..1]
+ logisticServiceChargeAmount: Amount [0..1]

maintenance
Change: (Verified) 3.1 / Post POC1: added cashOnDeliveryPayer and cashOnDeliveryBillTo

class InventorySubLocation - Maintenance

InventorySubLocation

+ gln: GLN [0..1]
+ glnExtension: string [0..1] = {1..20}
+ additionalPartyIdentification: AdditionalPartyIdentification [0..*]
+ inventorySubLocationTypeCode: InventorySubLocationTypeCode [0..1]
+ inventorySubLocationFunctionCode: InventorySubLocationFunctionCode [0..*]

maintenance
Change: (Verified) 3.1 new class (BRAD WIO and WIM)
Defect: (Verified) post POC: renamed SubLocationIdentification into glnExtension, made length 20.
Defect: (Verified) post POC1: changed sequence of attributes, made typeCode optional

class ShipmentTransportationInformation - maintenance view

« »
ShipmentTransportationInformation

+ handlingInstructionCode: HandlingInstructionCode [0..*]
+ transportMeansType: TransportMeansTypeCode [0..1]
+ transportServiceCategoryType: TransportServiceCategoryCode [0..1]
+ transportServiceLevelCode : TransportServiceLevelCode [0..1]

maintenance
Change: (New) 3.1: added freightForwarder (BRAD WIO)

7.3 BMS Release 3.2

Change	Associated WR
New class created to add to warehousing messages Carrier Track And Trace Information with: ■ Package tracking number ■ Carrier track and trace URL **class CarrierTrackAndTraceInformation - Maintenance** **CarrierTrackAndTraceInformation** + carrierTrackAndTraceURL :anyURI [0..1] = {1..2000} + packageTrackingNumber :String [0..1] = {1..70} *maintenance* Change: (Verified) 3.2 new class (WR 13-106)	**13-000106**

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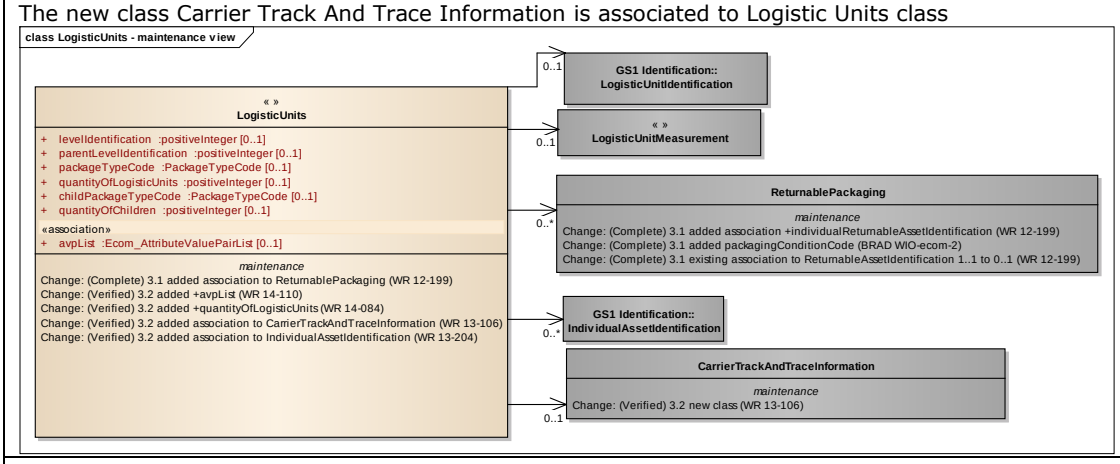
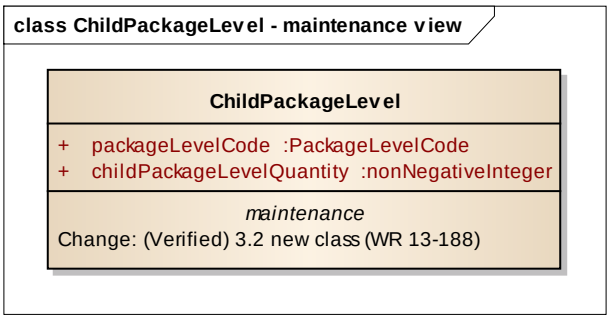
The new class Carrier Track And Trace Information is associated to Logistic Units class

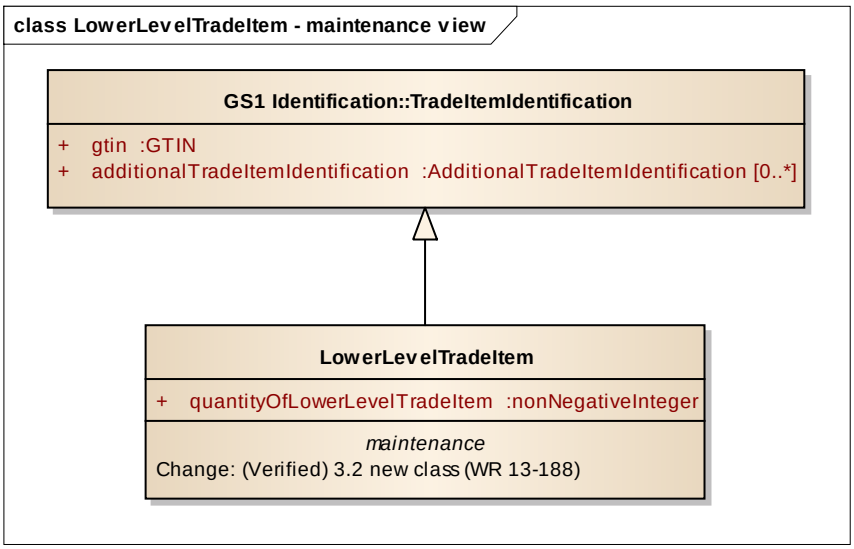


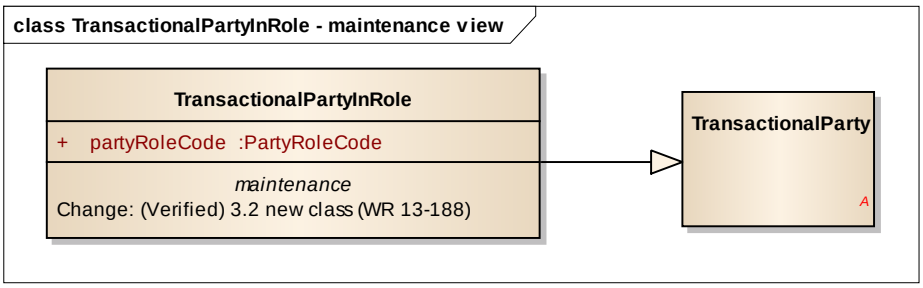
Created new classes to make the Item Data Notification message suitable to support new transport planning, transport execution and warehousing messages:

- Child package level
- Lower level Trade Item

13-000188







- Created code list: *QualityControlCode*

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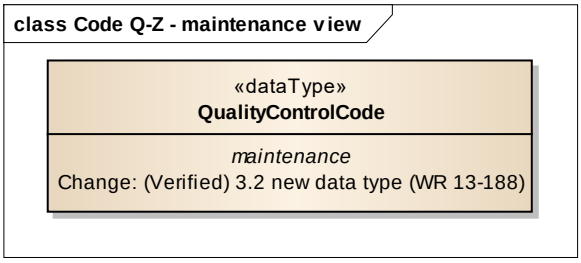
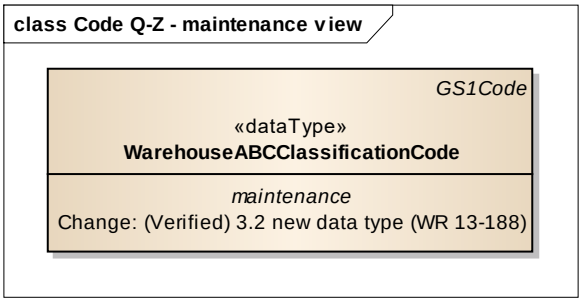


- Created code list: *WarehouseABCClassificationCode*

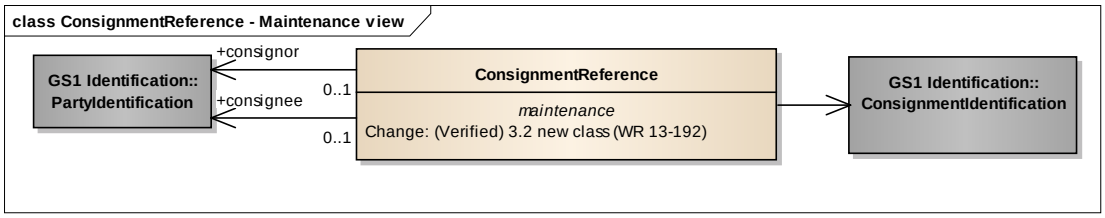
13-000188

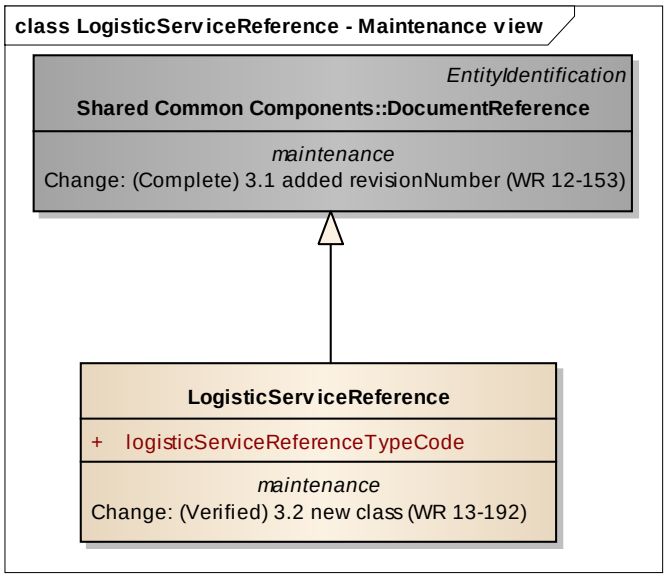


Created new classes to make the Invoice message suitable to support Transport and Logistic processes:

13-000192

- Consignment Reference
- LogisticServiceReference
- ShipmentReference





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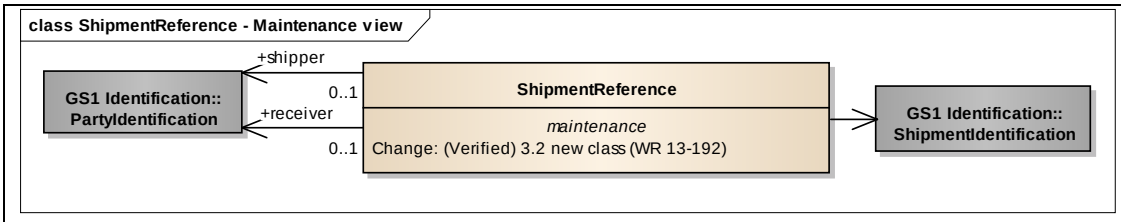
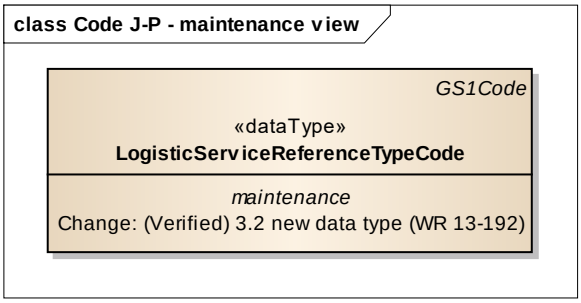
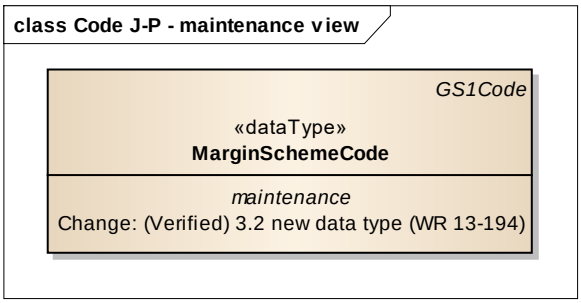


- Created code list: *LogisticServiceReferenceTypeCode*



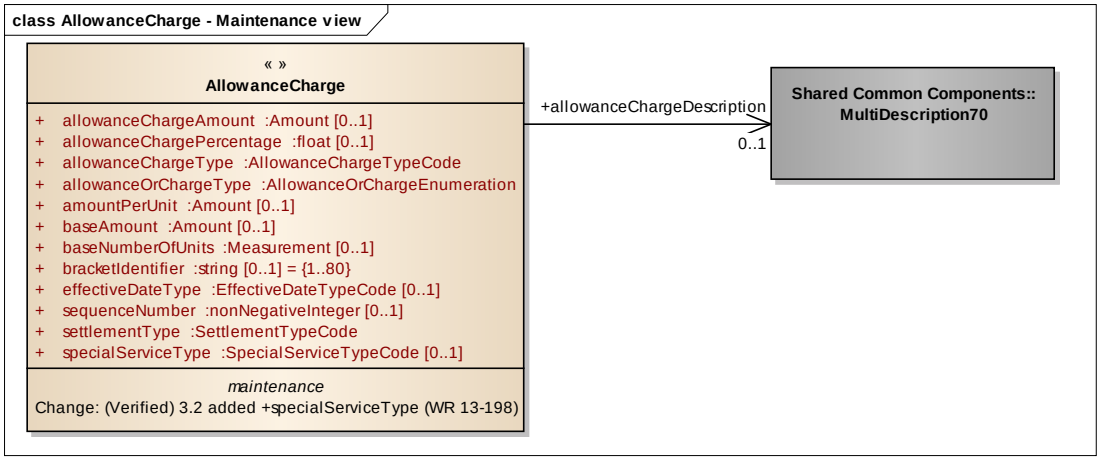
- Created code list: *MarginSchemeCode* to meet requirements of COUNCIL DIRECTIVE 2010/45/EU

13-000194



Added the specialServiceType attribute to the AllowanceCharge Class to align AllowanceChargeTypeCode list with the UN/ECE 5189 Allowance or Charge Identification Code

13-000198



- Created code list: *SpecialServiceTypeCode*

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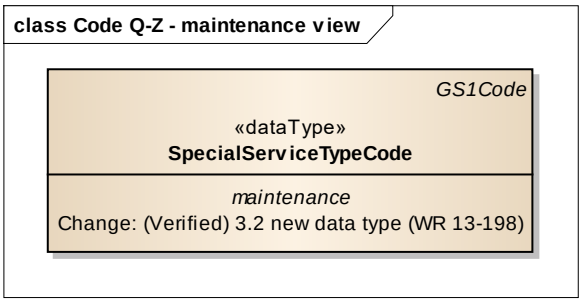
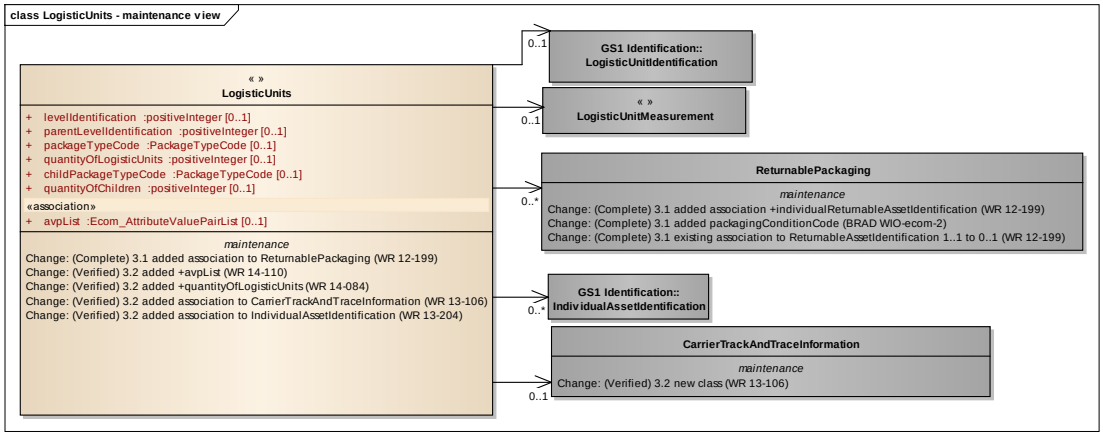


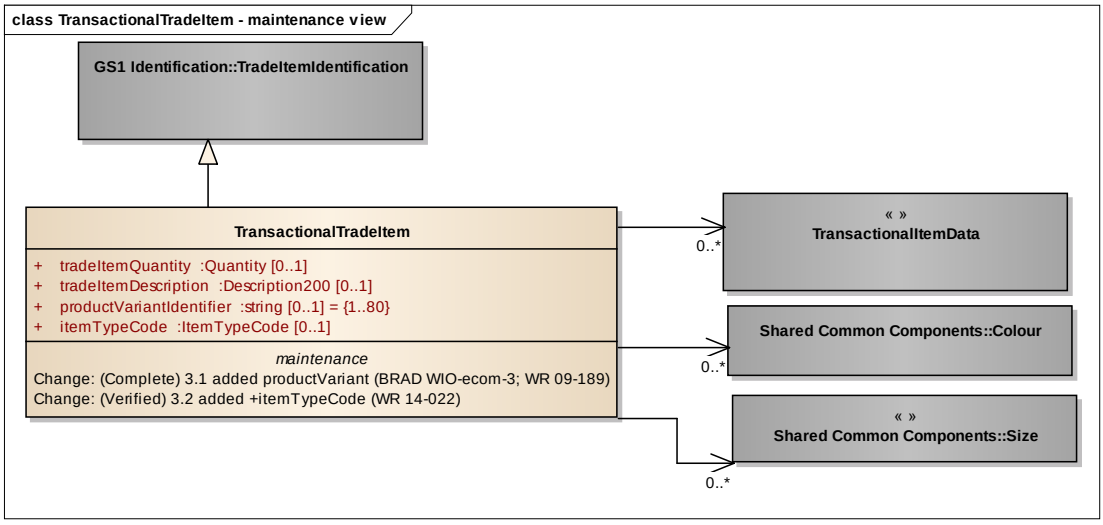
Added association to IndividualAssestIdentification class into the LogisticUnits class in order to include it in the Despatch Advice Logistic Unit

13-000204

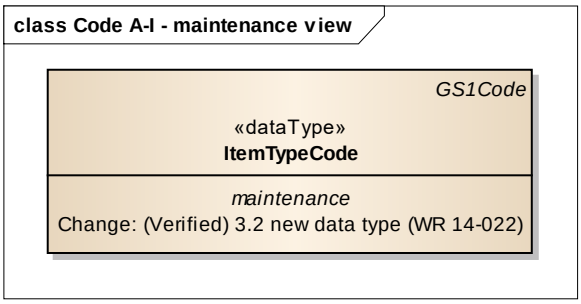


Added itemTyoeCode attribute to the TransactionalTradeItem class to enable identification of different types of LineItems

14-000022



- Created code list: *ItemTypeCode*



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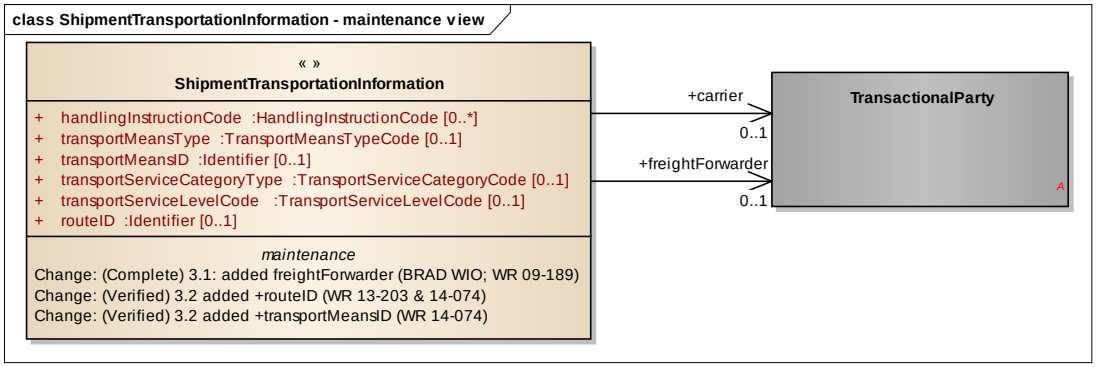
14-000074

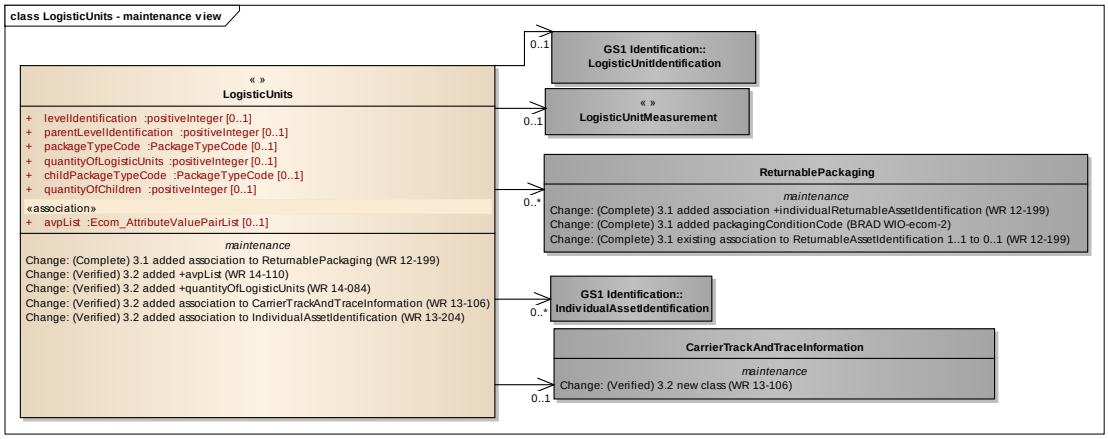
Added two attributes to the ShipmentTransportationInformation class, in order to include them into the Warehouse Outbound Instruction message

- routeID
- transportMeansID (truck ID)



14-000084

Added attribute quantityOfLogisticUnits to the LogisticUnits class to enable identification the package quantity in GS1 XML Receiving Advice message

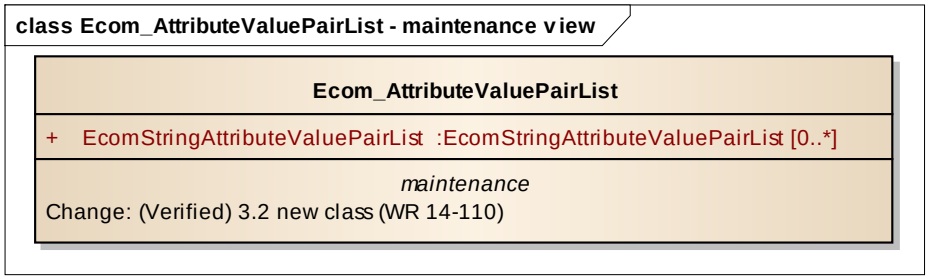


14-000110

Created the following classes

- Ecom_AttributeValuePairList
- EcomStringAttributeValuePairList
- EcomDocument

to add Attribute Value Pair at the root, line item and sub line item levels



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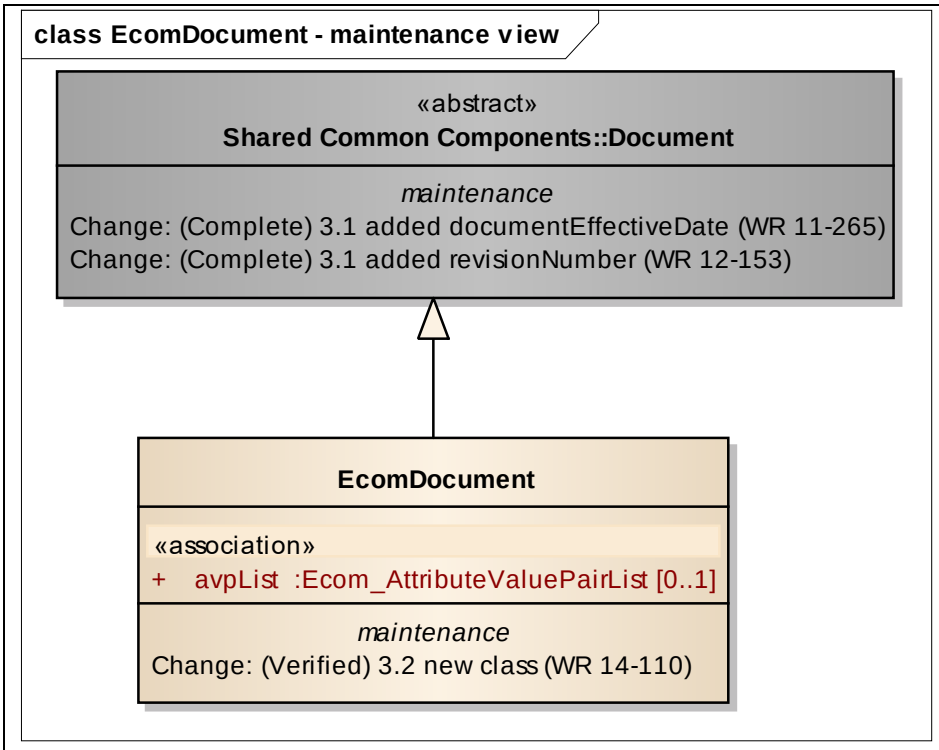

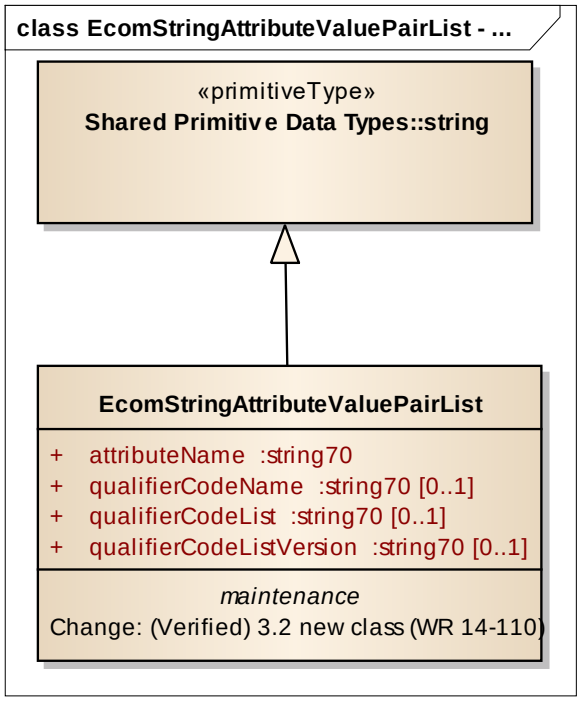

Added eCom_AttributeValuePairList attribute to the LogisticUnits class, in order to include it in all the messages using this class.

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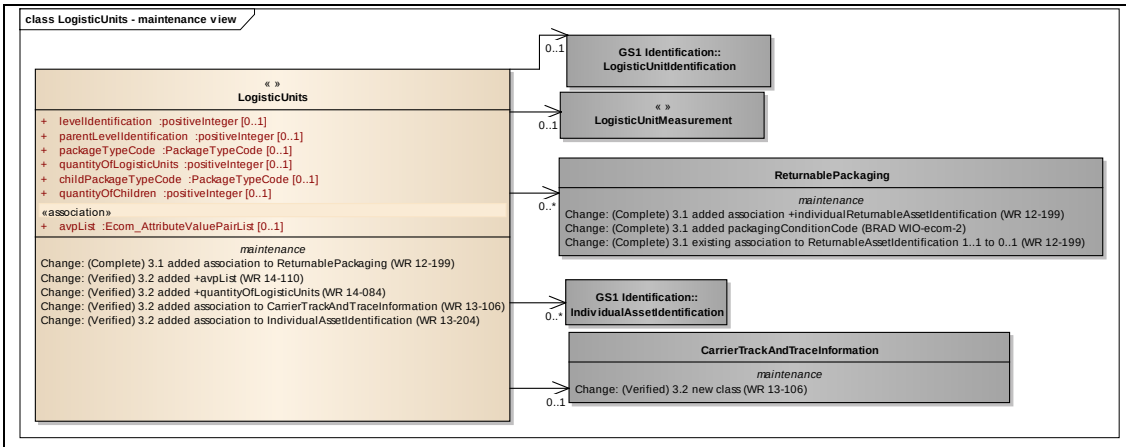
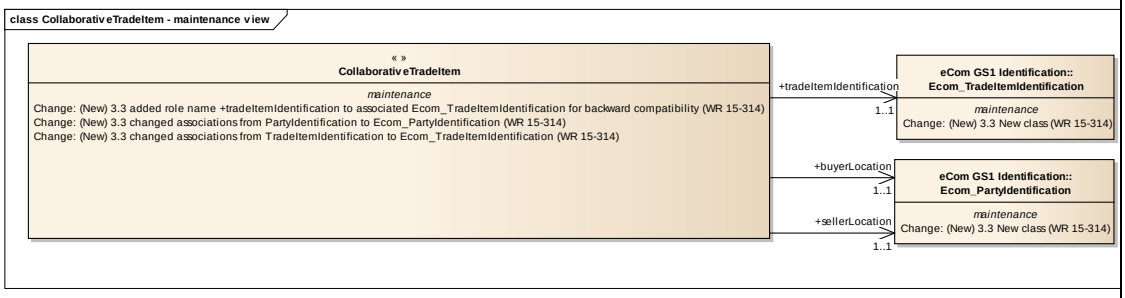
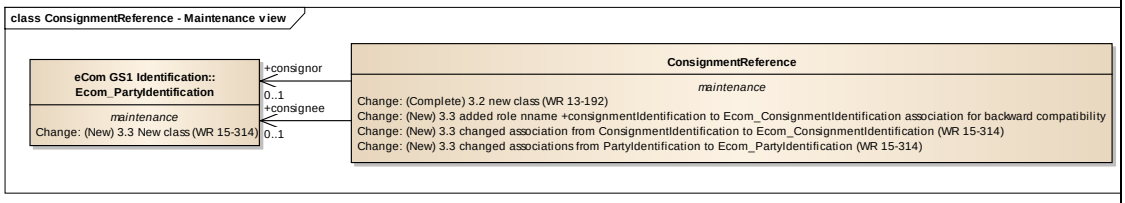
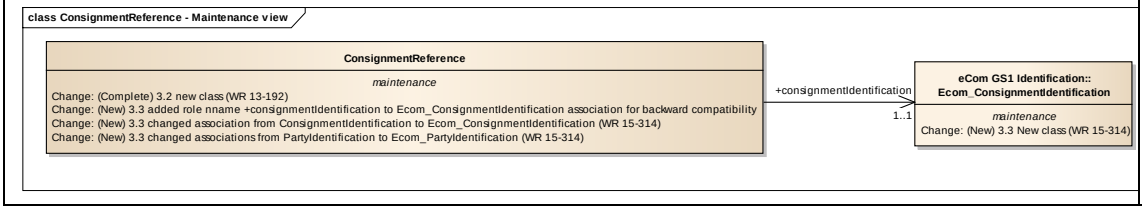


7.4 BMS Release 3.3

Change	Associated WR
▪ Created Ecom_TradeItemIdentification class and changed association from the previous TradeItemIdentification ▪ Created Ecom_PartyIdentification class and changed association from the previous PartyIdentification 	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created Ecom_PartyIdentification class and changed association from the previous PartyIdentification 	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created Ecom_ConsignmentIdentification class and changed association from the previous ConsignmentIdentification 	**15-000314** Make GS1 identification keys optional in GS1 EDI XML

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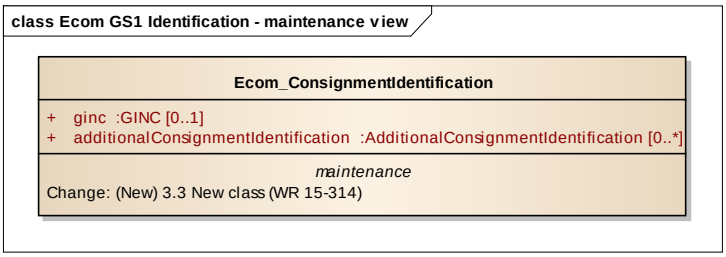
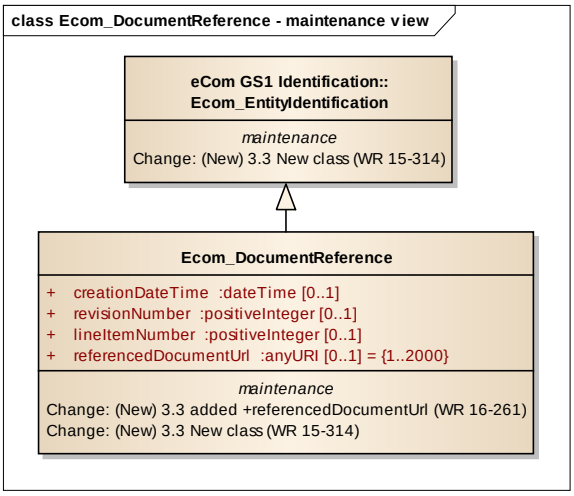
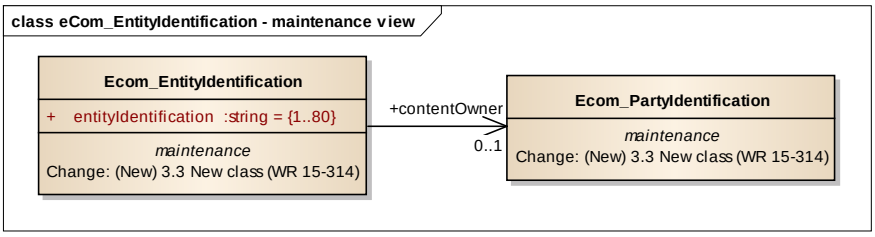
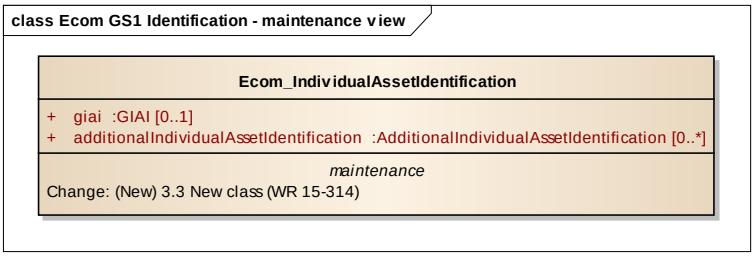
Change	Associated WR
Created new class with GS1 Key optional  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created Ecom_EntityIdentification class and changed association from the previous EntityIdentification  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created new class with GS1 Key optional  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created new class with GS1 Key optional  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML

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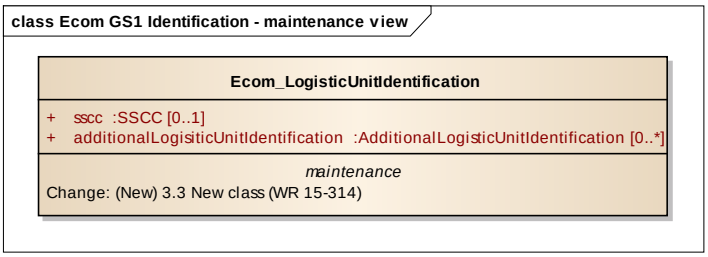
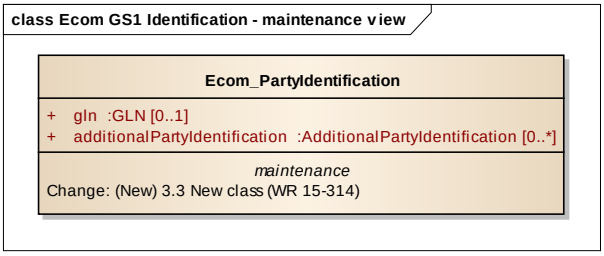
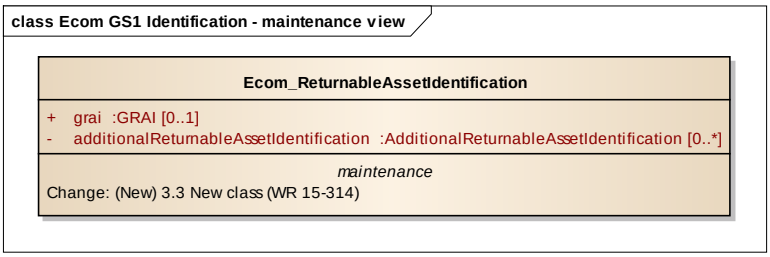
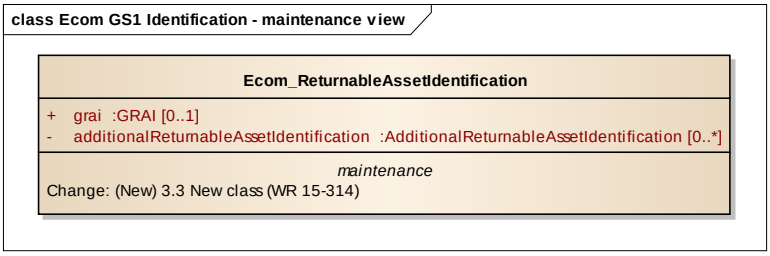
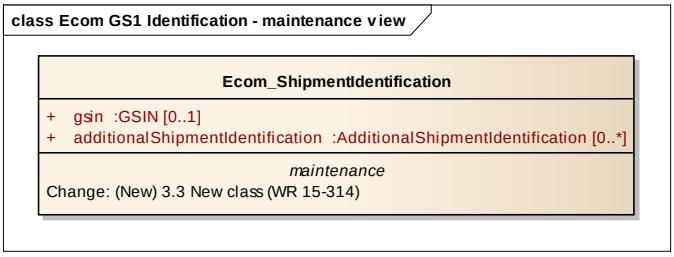
Change	Associated WR
Created new class with GS1 Key optional  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created new class with GS1 Key optional  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created new class with GS1 Key optional  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created new class with GS1 Key optional  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created new class with GS1 Key optional  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML

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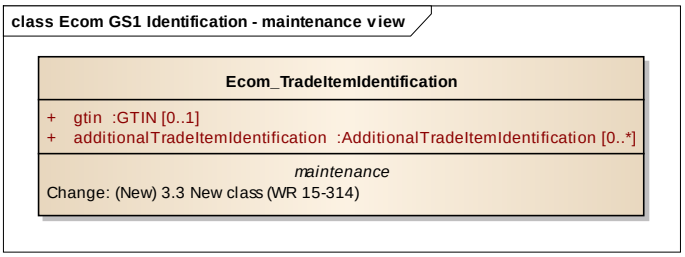
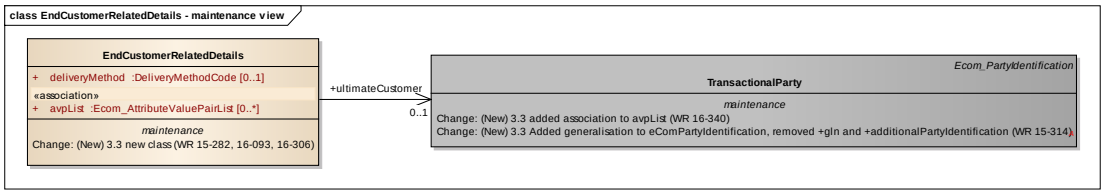
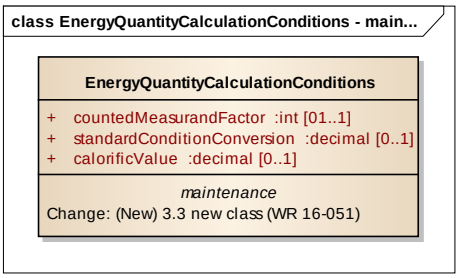
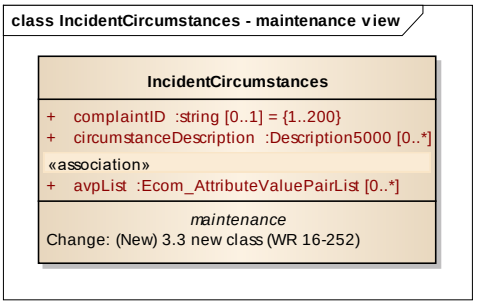
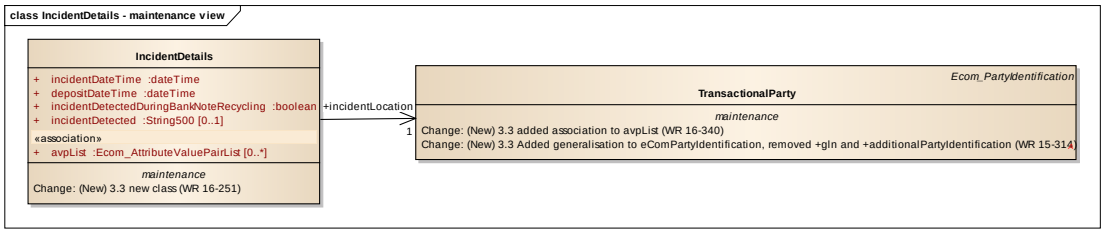
Change	Associated WR
Created new class with GS1 Key optional  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created EndCustomerRelatedDetails class  	**15-000282 & 16-000306** Add add deliveryMethod Code **16-000093** Add reference to ultimate customer
Created new class  	**16-000051** Add information for energy price calculation in Invoice
Created new class  	**16-000252** Add details of bank notes ink stain
Created new class  	**16-000251** Add details of incident detection

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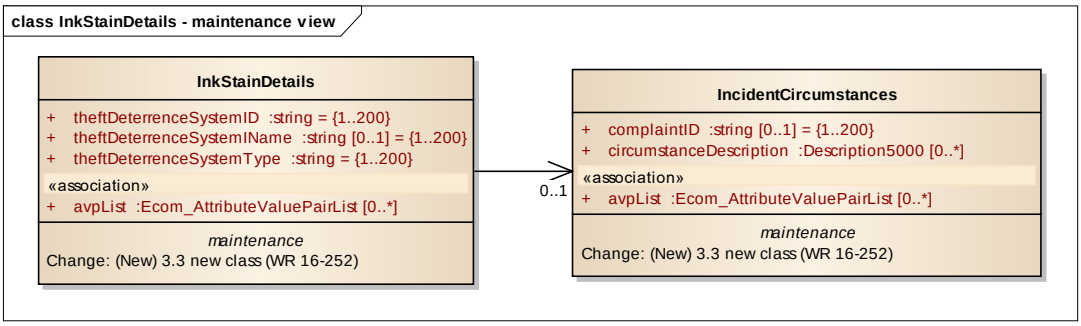
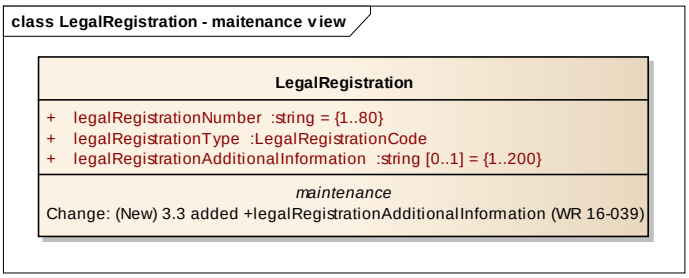
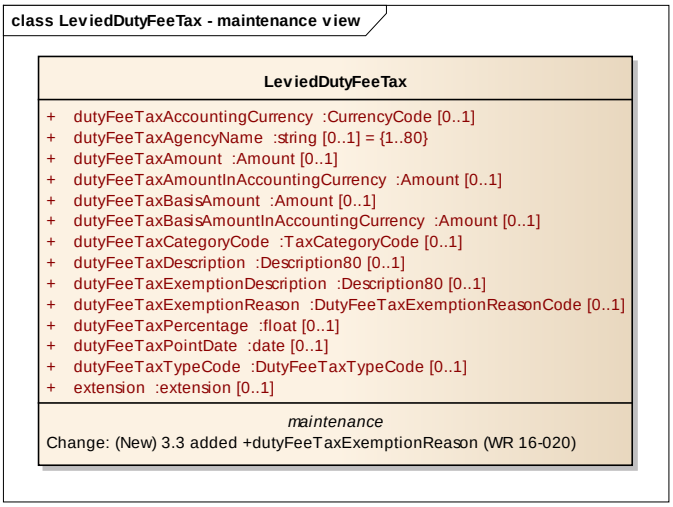
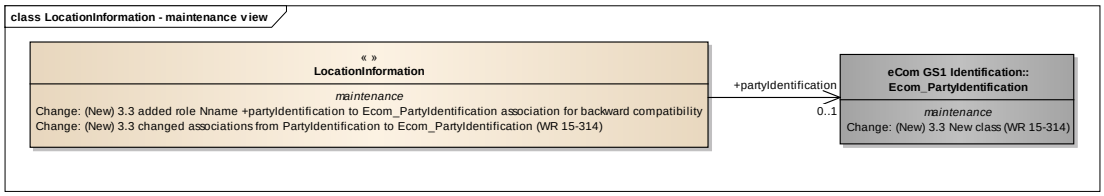
Change	Associated WR
Created new class  	**16-000252** Add details of bank notes ink stain
Added legalRegistrationAdditionalInformation attribute  	**16-000039** Add legal registration information of the seller
Added dutyFeeTaxExemptionReasonCode to LeviedDutyFeeTax class  	**16-000020** Add intra community delivery qualifier
Created Ecom_PartyIdentification class and changed association from the previous PartyIdentification  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML

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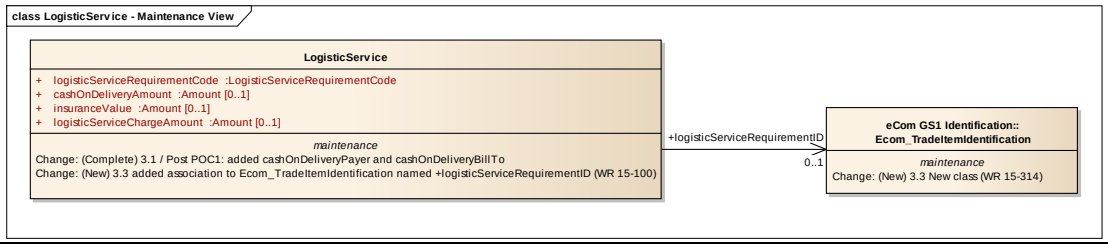
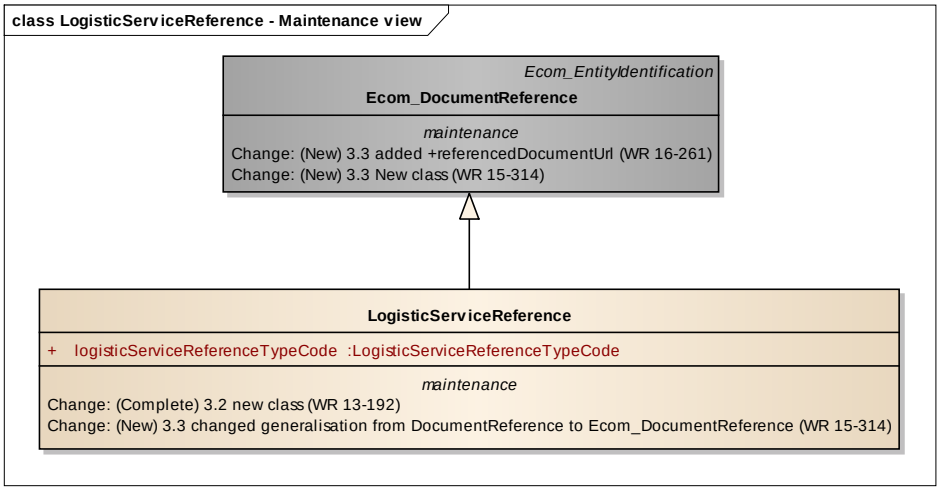
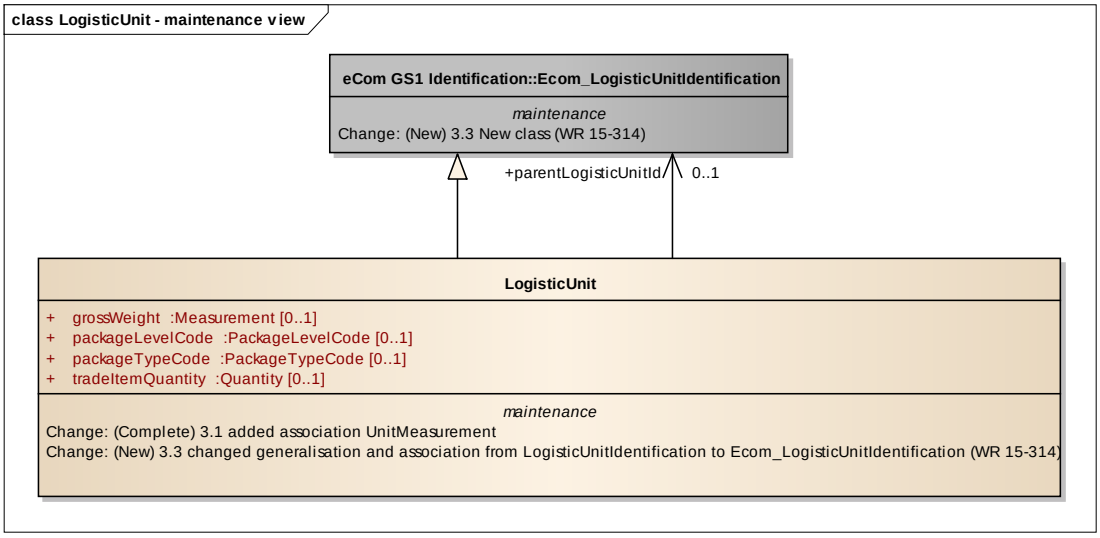
Change	Associated WR
Created Ecom_TradeItemIdentification class and changed association from the previous TradeItemIdentification  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created Ecom_DocumentReference class and changed generalisation from the previous DocumentReference  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

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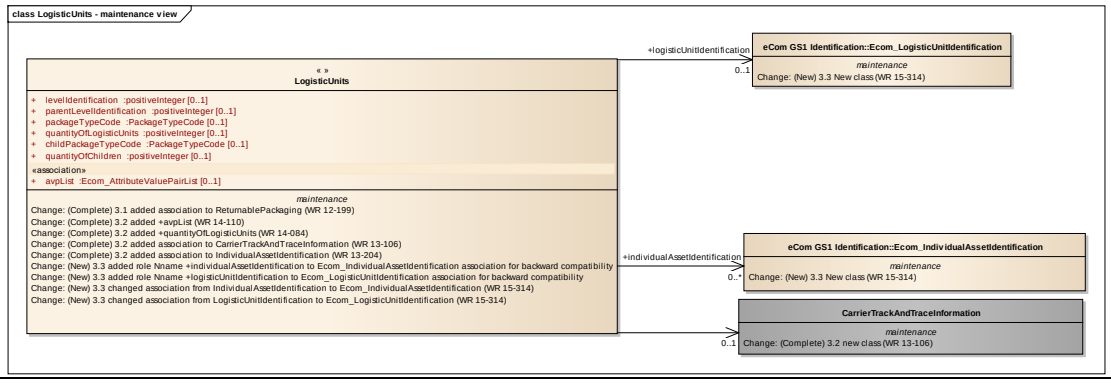
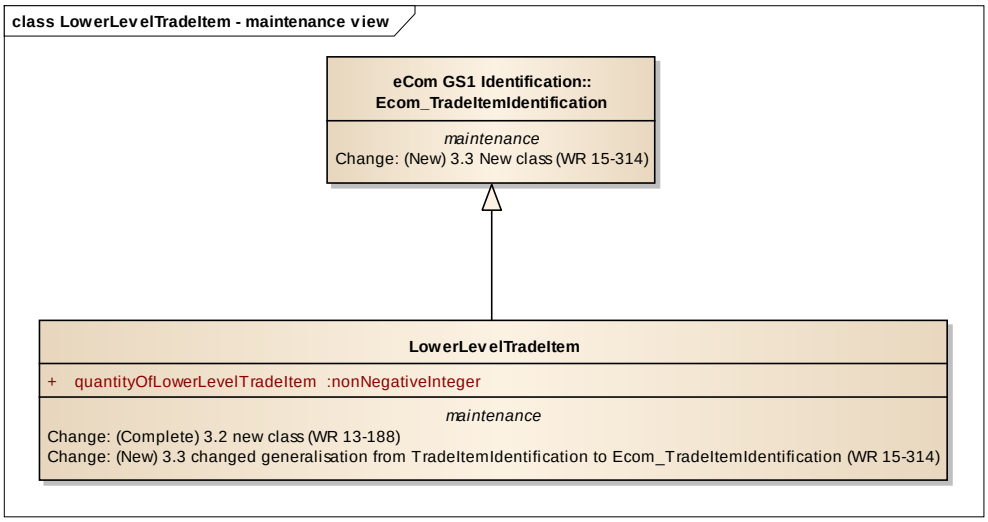
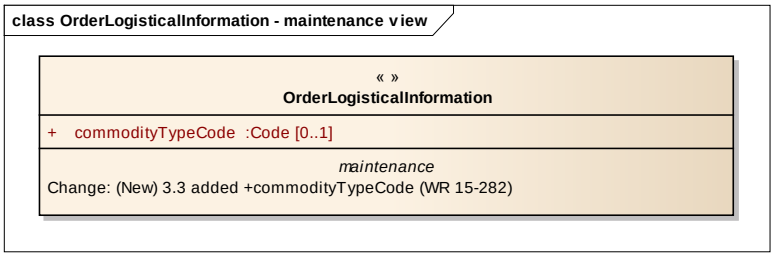
Change	Associated WR
■ Created Ecom_LogisticUnitIdentification class and changed association from the previous LogisticUnitIdentification and added association name logisticUnitIdentification to preserve backward compatibility ■ Created Ecom_IndividualAssetIdentification class and changed association from the previous IndividualAssetIdentification and added association name individualAssetIdentification to preserve backward compatibility  	**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
Added +commodityTypeCode  	**15-000282** Add commodityType with Commodity Code List

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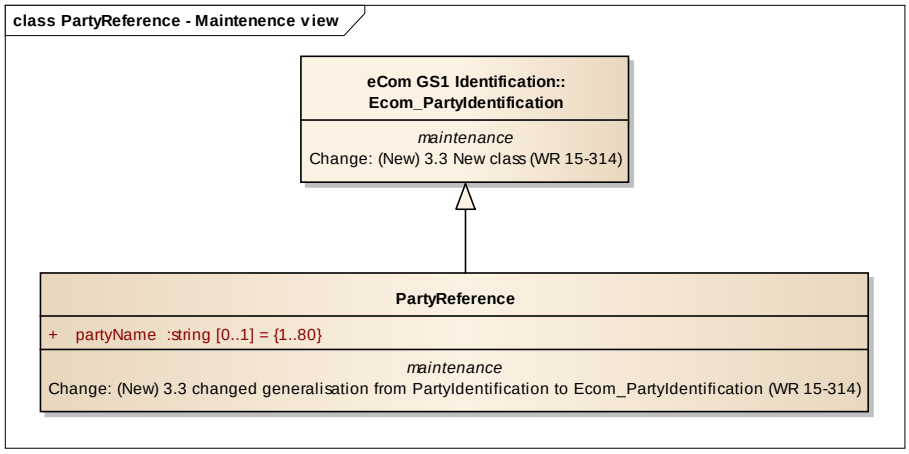
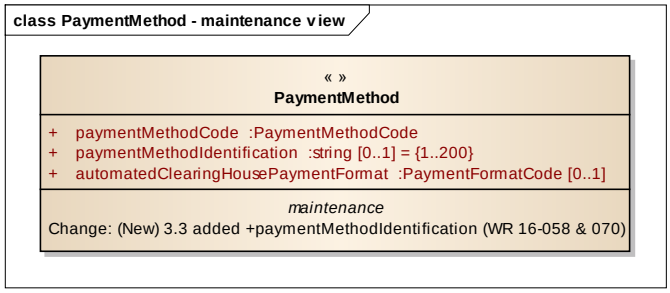
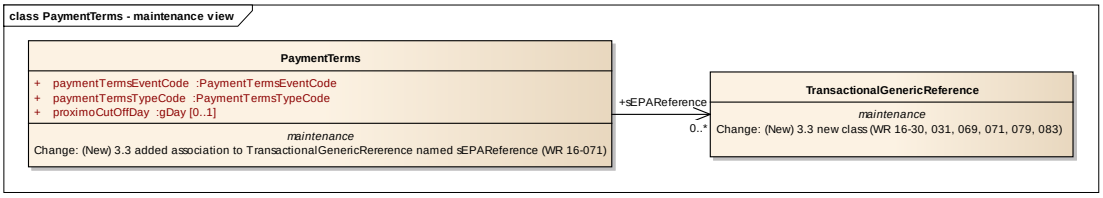
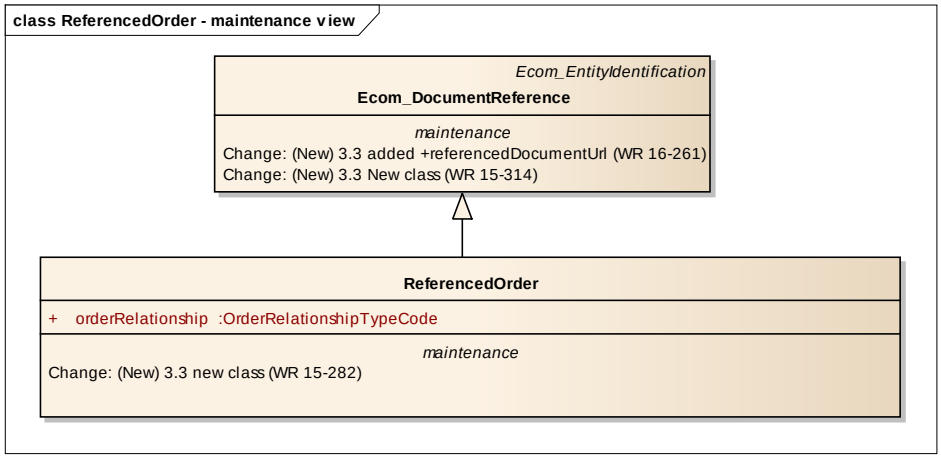
Change	Associated WR
Created Ecom_PartyIdentification class and changed generalisation from the previous PartyIdentification  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Added paymentMethodIdentification to PaymentMethod class and Fuel Card value to PaymentMethodCode list  	**16-000058** Add fuel card information **16-000070** Add card number
Created TransactionalGenericReference class and associated it to the PaymentTerms class  	**16-000071** Add mandate reference and the creditor- ID
Created ReferenceOrder class  	**15-000282** Add reference Order element with an order Relationship Code

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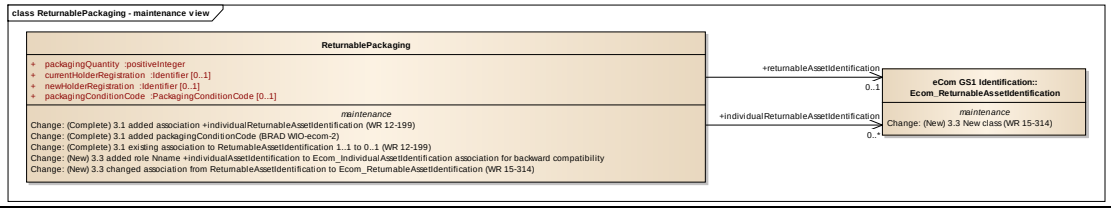
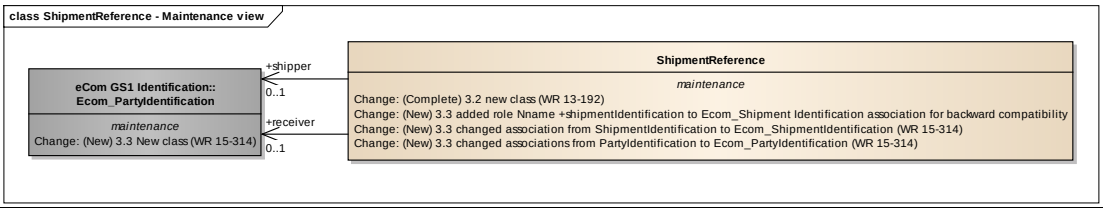
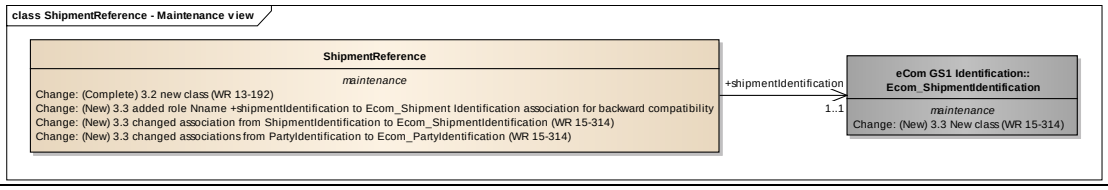
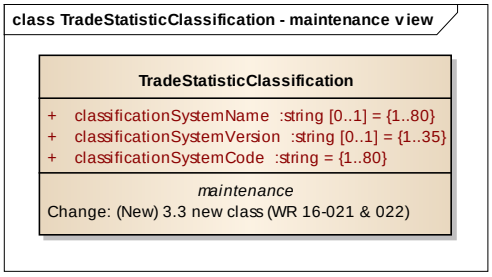
Change	Associated WR
Created Ecom_ReturnableAssetIdentification class and changed association from the previous ReturnableAssetIdentification  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created Ecom_PartyIdentification class and changed association from the previous PartyIdentification  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created Ecom_ShipmentIdentification class and changed association from the previous ShipmentIdentification, added association name shipmentIdentification to preserve backward compatibility  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created TradeStatisticClassification class  	**16-000021** Add declaration for export sector statistics or external trade statistics **16-000022** Add Intrastat

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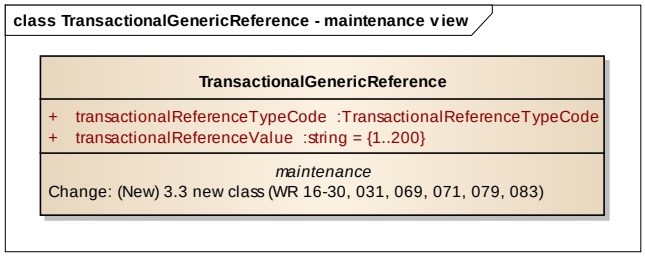
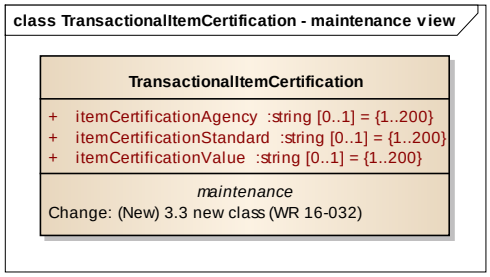
Change	Associated WR
Created TransactionalGenericReference class  	**16-000030** Add buyer reference **16-000031** Add reference number of an ultimate customer **16-000069 &** **16-000079** Add seller's reference number **16-000071** Add mandate reference and the creditor- ID **16-000083** Add suppliers reference number
Created TransactionalItemCertification class  	**16-000032** Add reference that the corresponding item is organic

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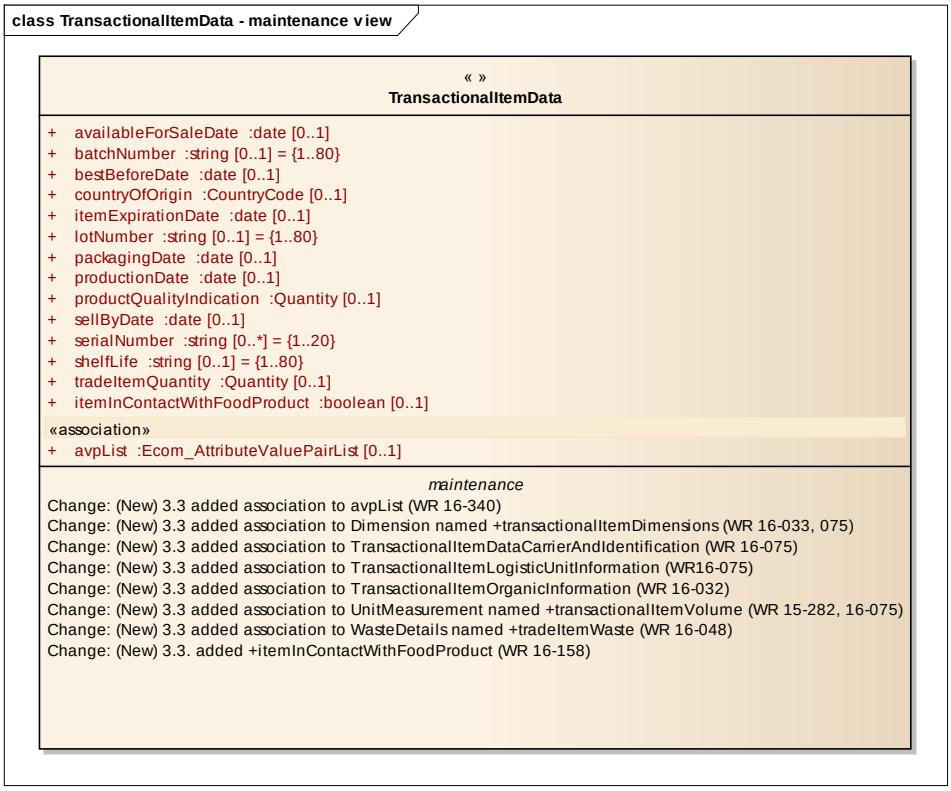
Change	Associated WR
Added itemInContactWithFoodProduct attribute	**16-000158** Add indicator „product contact“



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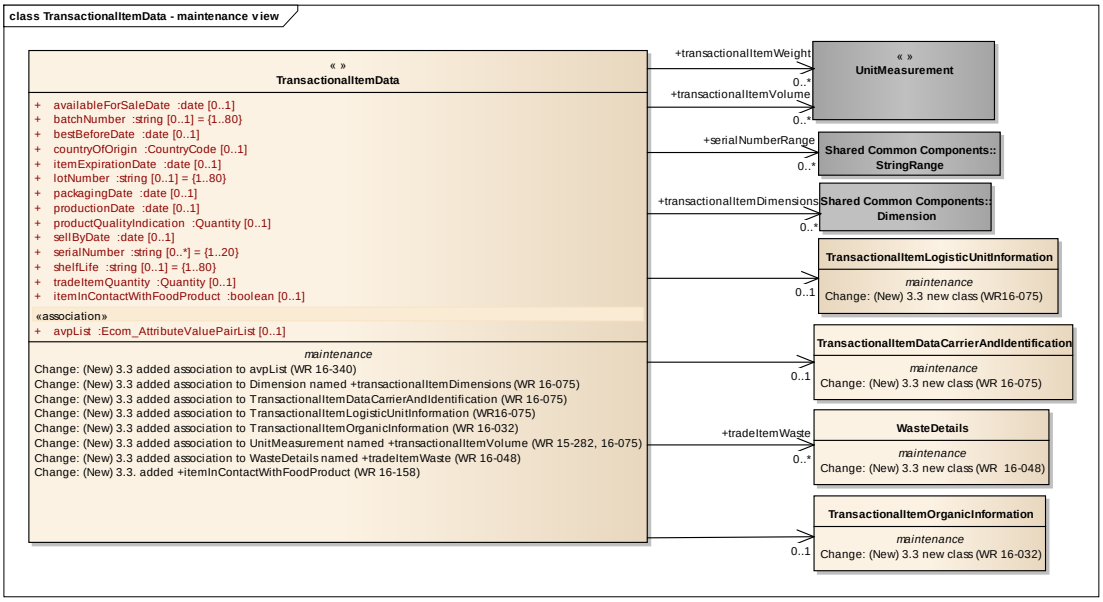
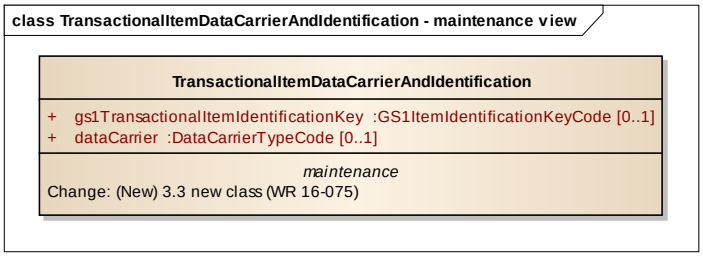
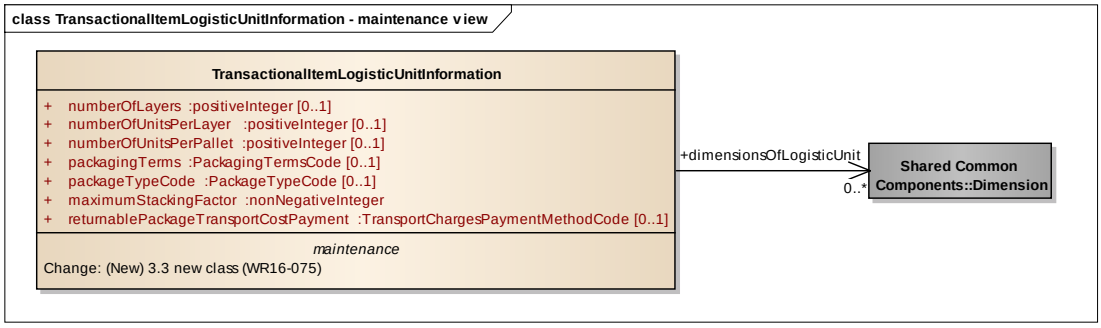
Change	Associated WR
■ Added association to UniteMeasurement named transactionalItemVolume (WR 15-282) ■ Added association to TransactionalItemOrganicInformation class (WR 16-032) ■ Added association to TradeItemWaste class (WR 16-048) ■ Added repeatable association to Dimension class named TransactionalItemDimensions (WR 16-075) ■ Added repeatable association to TransactionalItemDataCarrierAndIdentification class (WR 16-075) ■ Added repeatable association to LogisticUnitInformation class (WR 16-075) ■ Added itemInContactWithFoodProduct attribute (WR16-158) 	**15-000282** Add item volume information **16-000032** Add a reference that the corresponding item is organic **16-000048** Add type of waste **16-000075** Add item packaging information **16-000158** Add indicator „product contact”
Created TransactionalItemDataCarrierAndIdentification class 	**16-000075** Add item packaging information
Created TransactionalItemLogisticUnitInformation class 	**16-000075** Add item packaging information

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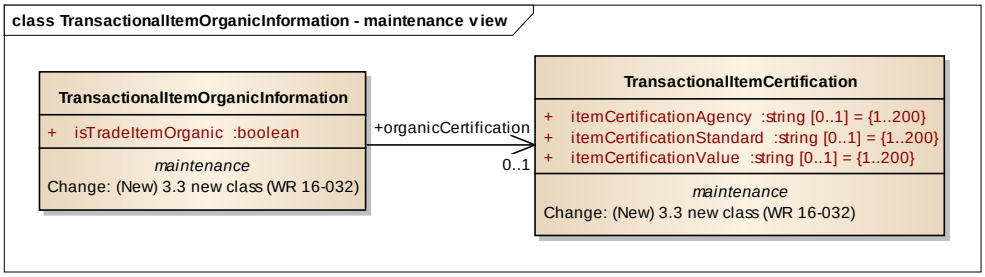
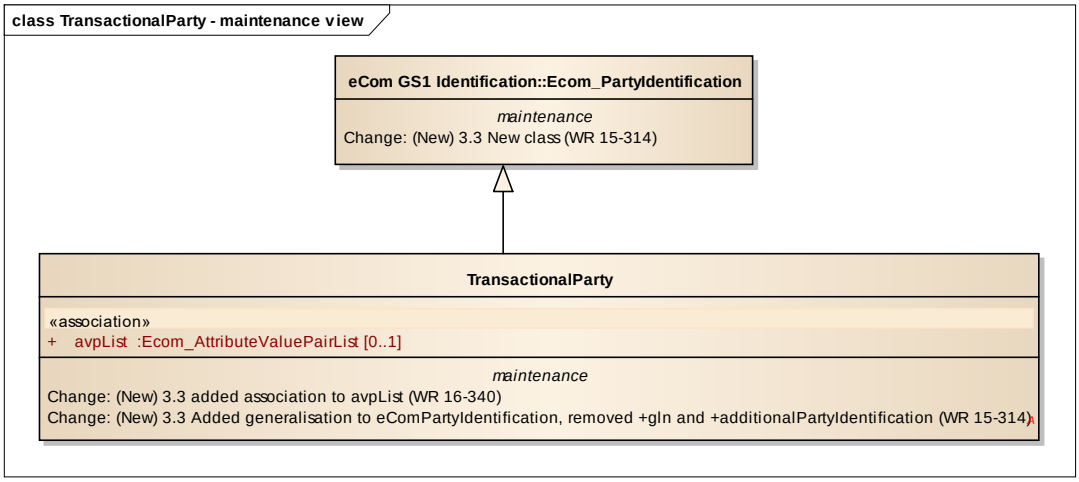
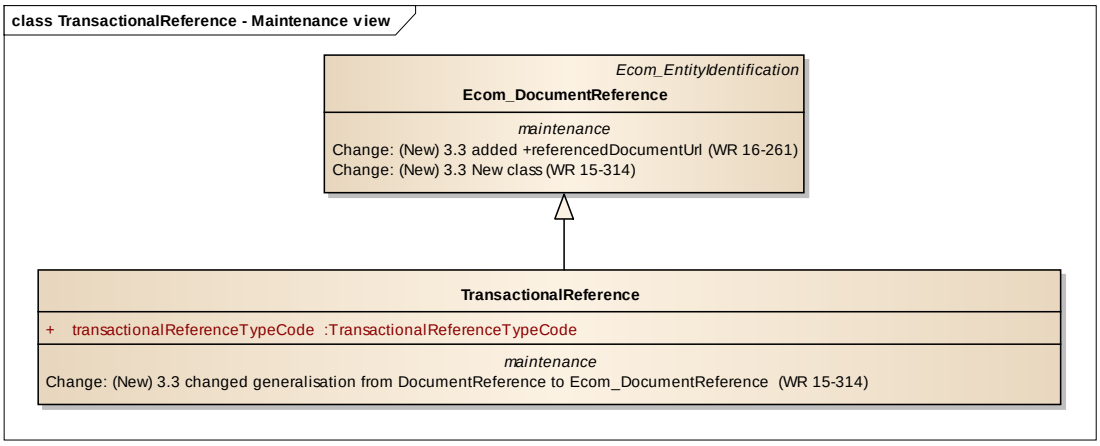
Change	Associated WR
Created TransactionalItemOrganicInformation class  	**16-000032** Add a reference that the corresponding item is organic
■ Created Ecom_PartyIdentification class and changed association from the previous PartyIdentification ■ Added association to aVPList  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML **16-000340** Add AVP placeholder
Created Ecom_DocumentReference class and changed generalisation from the previous DocumentReference  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML

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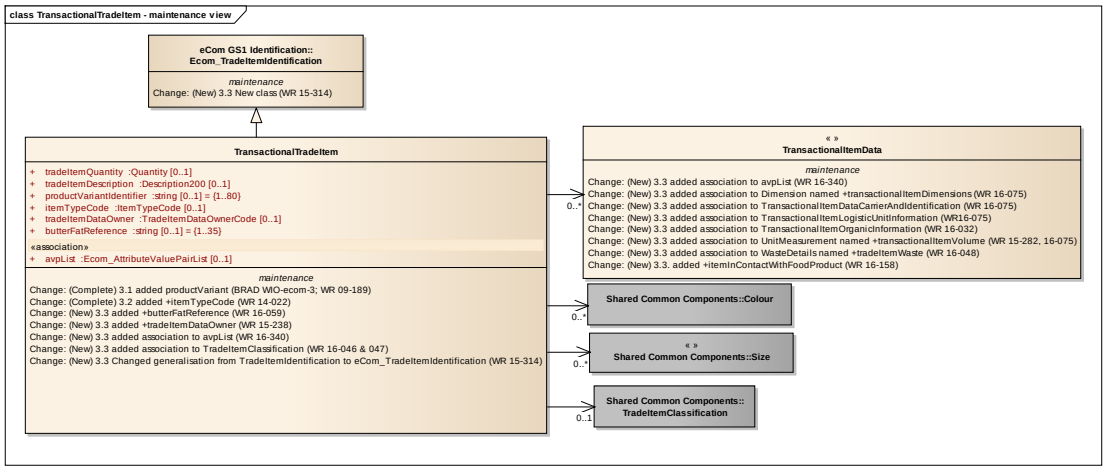
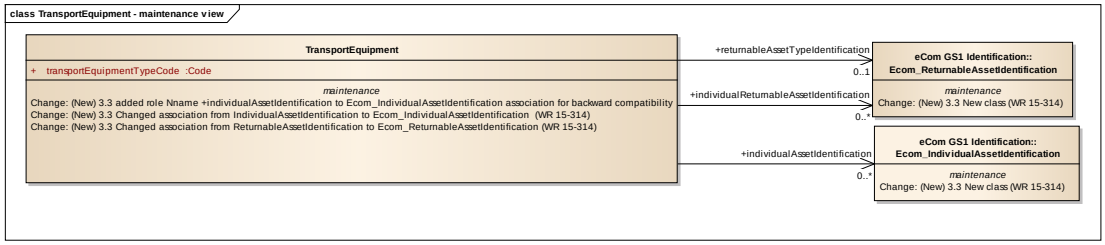
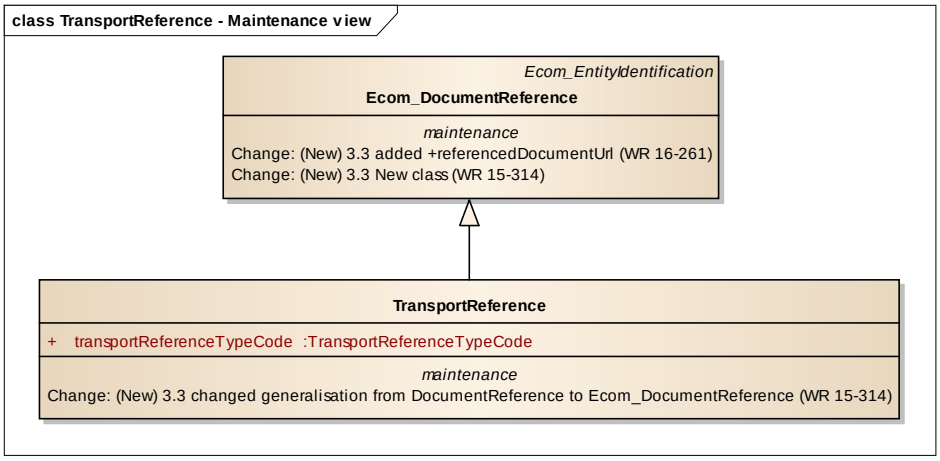
Change	Associated WR
▪ Created Ecom_TradeItemIdentification class and changed association from the previous TradeItemIdentification (WR 15-314) ▪ Added tradeItemDataOwner attribute (WR 15-238) ▪ Added association to TradeItemClassification class (WRs 16-046 & 47) ▪ Added butterFatReference attribute (WR 16-059) ▪ Added association to aVPList (WR 16-340)  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML **15-000238** Add attributes specifying the different ownership of Trade Item data **16-000046** Add national product classification **16-000047** Add GPC brick **16-000059** Add surcharge number for butter **16-000340** Add AVP placeholder
▪ Created Ecom_ReturnableAssetIdentification class and changed association from the previous ReturnableAssetIdentification ▪ Created Ecom_ IndividualAssetIdentification class and changed association from the previous IndividualAssetIdentification and added association name individualAssetIdentification to preserve backward compatibility  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML
Created Ecom_DocumentReference class and changed generalisation from the previous DocumentReference  	**15-000314** Make GS1 identification keys optional in GS1 EDI XML

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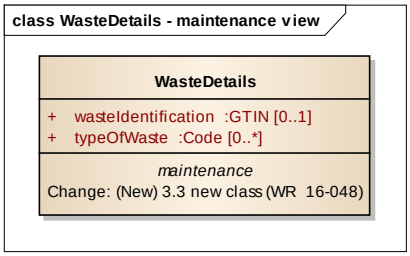
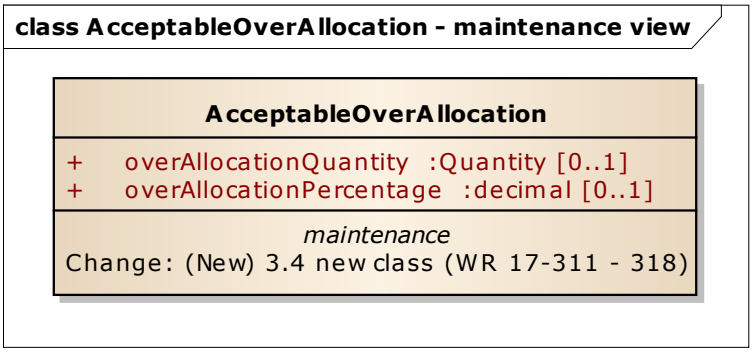
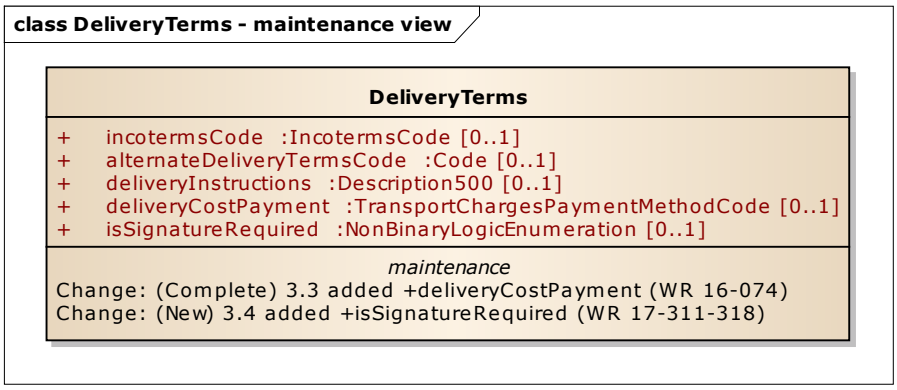
Change	Associated WR
Created WasteDetails class  	**16-000048** Add type of waste

7.5 BMS Release 3.4

Change	Associated WR
Created new class **AcceptableOverAllocation** class (see: *3.1.2*) inherited by the **OrderLineItem** class  	**17-000311 - 17-000318** Add over allocation aode to the orderLineItem
Added **isSignatureRequired** to **DeliveryTerms** class inherited by the Order class  	**17-000311 - 17-000318** Add is signature required to Order

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Change	Associated WR
Created **isBuyerBasedInEU** class to be inherited by Order, Invoice and Settlement **class EuUniqueID - Maintenance view** **EuUniqueID** + euUniqueIDTypeCode :EuUniqueIDTypeCode + unitPacketLevelUniqueIdentifier :String500 [0..*] + aggregatedLevelUniqueIdentifier :String500 [0..*] *maintenance* Change: (New) 3.4 new class (WR 18-279)	**18-000279** Add: ■ Unique Identifier Type ■ list of serialised Unique Identifiers ■ list of aggregated Unique Identifiers to Order, Invoice and Settlement

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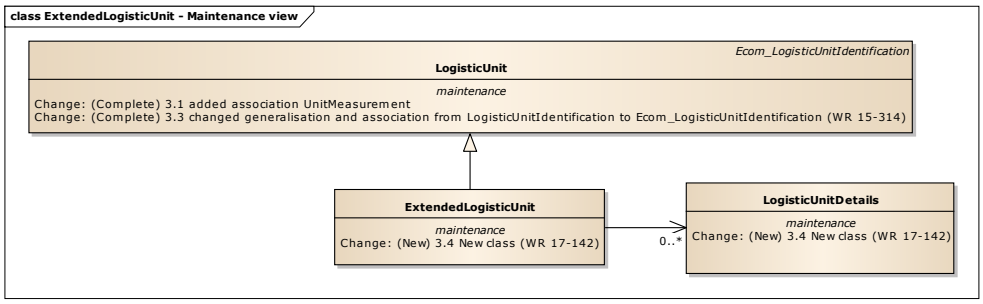
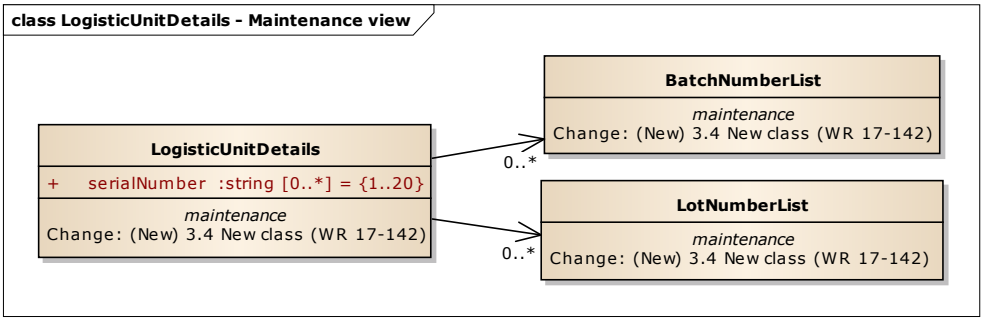
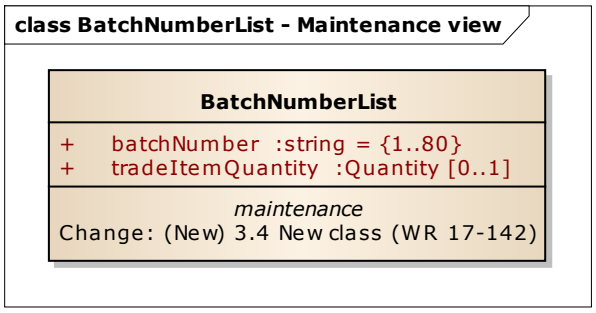
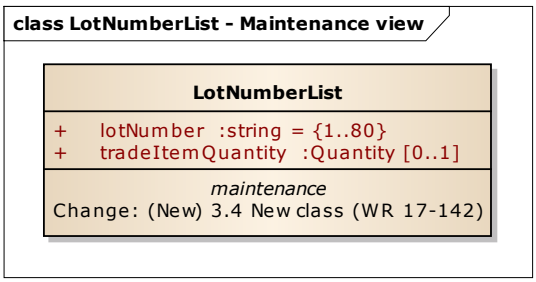
Change	Associated WR
Created **ExtendedLogisticUnit** class and added association to **WarehousingShipmentItem** class named **logisticUnit**  Created **LogisticUnitDetails** class and associated it to **ExtendedLogisticUnit**  Created **BatchNumberList** class and associated it to **LogisticUnitDetails**  Created **LotNumberList** class and associated it to **LogisticUnitDetails**  	**17-000142** Add to warehousing messages a possibility to specify trade item which serial, lot and batch numbers are in which logistic units

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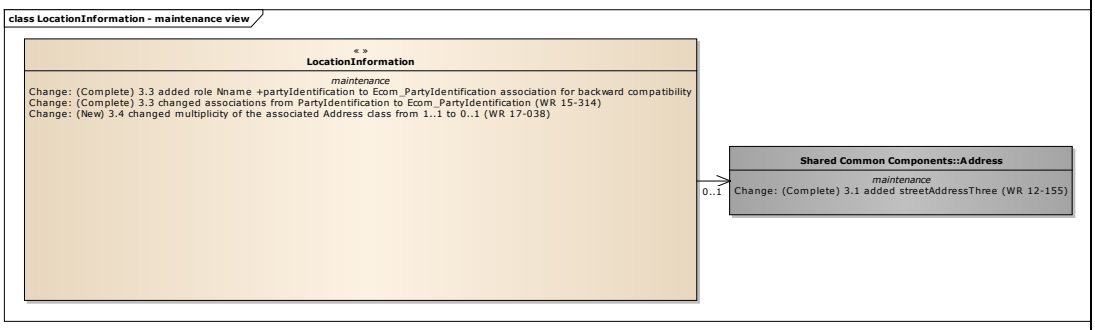
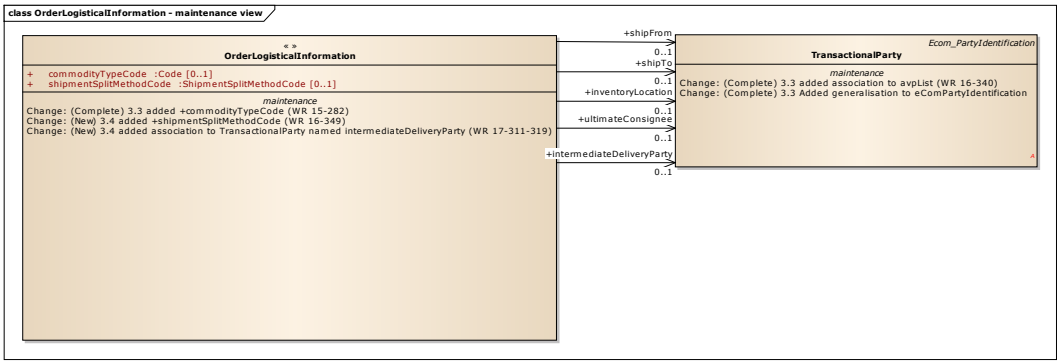
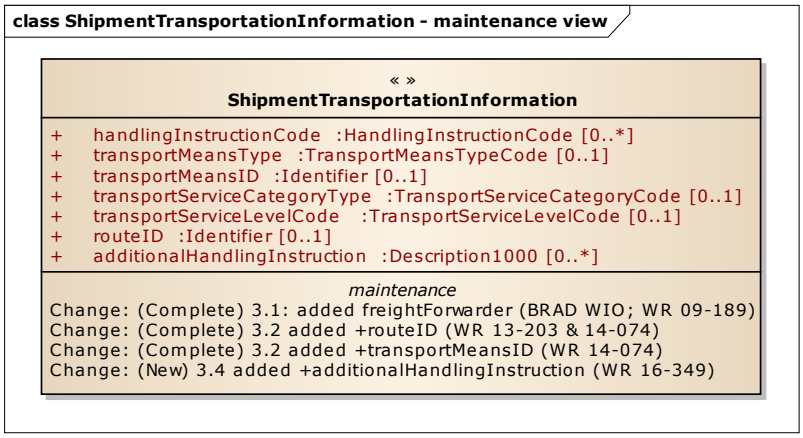
Change	Associated WR
Made the association to **Address** from **LocationInformation** class has optional, enabling the use of this class to meet the requirement.  	**17-000038** Add indentication of the cash desk on which the coupon has been scanned or entered with an internal identifier to the despatchAdviceLineItem
■ Created ShipmentSplitMethodCode and associated it to OrderLogisticalInformation ■ Added association from OrderLogisticalInformation to TransactionalParty class named intermediateDeliveryParty  	**16-000349** Add shipment Split Method Code to Order and OrderLineItem **17-000311 - 17-000318** Add routeVia to the order
Added **additionalHandlingInstruction** to **ShipmentTransportationInformation** class  	**16-000349** Add handling instruction to Order and OrderLineItem

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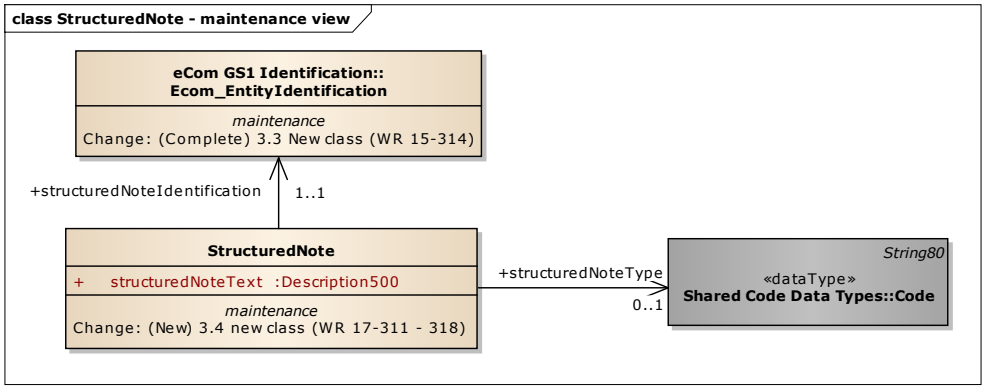
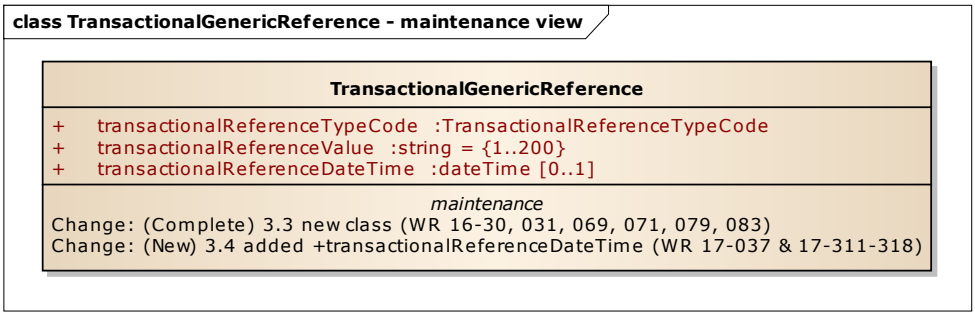
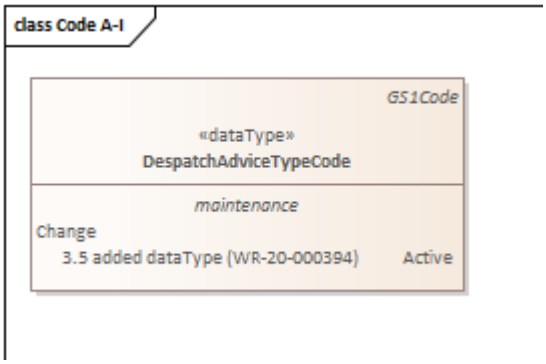
Change	Associated WR
Created **StructuredNote** class and associated it to the **Order** class  	**17-000311 - 17-000318** Add Order Note
Added a new code **Customer receipt identifier** to the **Transactional Reference Type Code** list and added **referenceDate** to the **transactionalGenericReference** class  	**17-000037** Add the reference and the date/time of the receipt of the customer that have used a paper coupon to the despatchAdviceLineItem **17-000311 - 17-000318** Add date to the transactionalGenericReference in the order

7.6 BMS Release 3.5

Change	Associated WR
▪ Created new typecode **DdespatchAdviceTypeCode** to codes A-I  ▪	**WR-20-000394**

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Change	Associated WR
▪ Created new attribute logisticLabelCustomerText to main class of eCom Common Components::OrderLogisticalInformation class OrderLogisticalInformation « » **OrderLogisticalInformation** + commodityTypeCode: Code [0..1] + logisticLabelCustomerText: String [0..1] = {1..1000} + shipmentSplitMethodCode: ShipmentSplitMethodCode [0..1] *maintenance* Change 3.3 added +commodityTypeCode (WR 15-282) Complete 3.4 added +shipmentSplitMethodCode (WR 16-349) Complete 3.4 added association to TransactionalParty named intermediateDeliveryParty (WR 17-311-319) Complete 3.5 added attribute logisticLabelCustomerText (WR 20-265) New ▪	**WR 20-265**
Changed definition of dutyFreeTaxAccountingCurrency to :" The code specifying the currency used for duty, tax or fee accounting purposes." **LeviedDutyFeeTax** + dutyFeeTaxAccountingCurrency: CurrencyCode [0..1] + dutyFeeTaxAgencyName: string [0..1] = {1..80} + dutyFeeTaxAmount: Amount [0..1] + dutyFeeTaxAmountInAccountingCurrency: Amount [0..1] + dutyFeeTaxBasisAmount: Amount [0..1] + dutyFeeTaxBasisAmountInAccountingCurrency: Amount [0..1] + dutyFeeTaxCategoryCode: TaxCategoryCode [0..1] + dutyFeeTaxDescription: Description80 [0..1] + dutyFeeTaxExemptionDescription: Description80 [0..1] + dutyFeeTaxExemptionReason: DutyFeeTaxExemptionReasonCode [0..1] + dutyFeeTaxPercentage: float [0..1] + dutyFeeTaxPointDate: date [0..1] + dutyFeeTaxTypeCode: DutyFeeTaxTypeCode [0..1] + extension: extension [0..1] *maintenance* Change 3.3 added +dutyFeeTaxExemptionReason (WR 16-020) Complete 3.5 changed definition of dutyFreeTaxAccountingCurrency (WR 20-356) Active ▪	**WR 20-356**

7.7 BMS Release 3.5.1

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

7.8 BMS Release 3.6

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

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8 Appendices

Not Applicable

9 Acknowledgements

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9.1.2 Development Team Members

Function	Name	Organisation
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