

SMS Broker System
Software Integration

Our system uses
WCF
(Windows Communication Foundation)
&
.NET

Customs entry classes and interfaces. Part 1

(ver. from 8/3/2026)

Table of Contents

1. ShipmentArticle	1
1.1 ShipmentArticleTariff.	8
1.1.1 Customer Tariff.	11
1.2 Shipment Article Additional Declaration.	12
1.2.1 Importer's declaration.	12
1.3 Shipment Article Census Warning.	15

1. ShipmentArticle.

Class: [DataContract](#)

SMS.Broker.DataContracts.Documents.[ShipmentArticle](#) : [EntityChild](#)

Collection of these objects is included to Shipment. On CBPF 7501 each ShipmentArticle object becomes a Line Item info (see CATAIR).

Properties:

Attributes	Name	Type	Description
[DataMember] [StringLength(1)]	ADBondCashClaimCode	string	Antidumping bond/cash claim code. Indicates that the duty amount is collected as a cash deposit or considered as under a bond. Has Possible Values.
[DataMember] [DecimalPrecisionAttribute(8, 2)]	ADCaseDepositRate	decimal	Antidumping case deposit rate. Applicable deposit rate.
[DataMember] [StringLength(1)]	ADCaseNonReimbursementStatement	string	AD Case Non-Reimbursement

			Statement (Importer's disclosure statement). Has Possible Values.
[DataMember] [StringLength(10)]	ADCaseNumber	string	Antidumping case number.
[DataMember] [StringLength(1)]	ADCaseRateTypeCode	string	Antidumping case rate type qualifier code. The 'type' of rate prescribed by the case. Has Possible Values.
[DataMember] [StringLength(10)]	ADCVDNonReimbursementDeclarationIdentifier	string	Identifier of the blanket Antidumping/Countervailing Non Reimbursement Declaration that includes this Case Number.
[DataMember]	AdditionalDeclarations	List<ShipmentArticleAdditionalDeclaration>	Collection of additional importer's declarations.
[DataMember] [DecimalPrecisionAttribute(10, 2)]	ADDutyAmount	decimal	Antidumping duty amount.
[DataMember] [DecimalPrecisionAttribute(12, 4)]	ADQuantity	decimal	Antidumping quantity. Total number of primary units (which corresponds to the UOM Code prescribed by the case) to be used for calculating the estimated antidumping duty (when a specific rate applies).
[DataMember] [DecimalPrecisionAttribute(10, 0)]	ADValueOfGoodsAmount	decimal	Antidumping value of goods amount.
[DataMember] [DecimalPrecisionAttribute(9, 0)]	ArticleChargeUSD	decimal	Article freight charge amount.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(13, 0)]	ArticleMMV	decimal	Article <i>Added To Make Market Value</i> . The sum of MMV value on all article tariff records.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(9, 0)]	ArticleMMVUSD	decimal	Article MMV value in USD.

[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(13, 0)]	ArticleNonDutiabale	decimal	Article non-dutable value. The sum of non-dutable value on all article tariff records.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(9, 0)]	ArticleNonDutiabaleUSD	decimal	Article non-dutable value in USD.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(13, 0)]	ArticleOther	decimal	Article other value. The sum of other value on all article tariff records.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(9, 0)]	ArticleOtherUSD	decimal	Other value in USD.
[DataMember] [StringLength(1)]	ArticleSetIndicator	string	An indication that the article is a part of an article 'set'. Has Possible Values.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(9, 0)]	ArticleTotalUSD	decimal	Article value in USD.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(13, 0)]	ArticleValue	decimal	Article value. The sum of value on all article tariff records.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(9, 0)]	ArticleValueUSD	decimal	Article value in USD.
[DataMember]	CensusWarnings	List<ShipmentArticleCensusWarning>	Collection of Census Warnings.
[DataMember]	ClientDescription	string	Client description.
[DataMember]	Consignee	Contact	Consignee
[DataMember] [StringLength(2)]	CountryOfExport	string	Country of export. Has Possible Values.
[DataMember] [StringLength(2)]	CountryOfOrigin	string	Country of origin. Has Possible Values.
[DataMember] [StringLength(1)]	CVDBondCashClaimCode	string	Countervailing bond/cash claim code. Indicates that the duty amount is collected as a cash deposit or considered as under a bond. Has Possible

			Values. Has Possible Values.
[DataMember] [DecimalPrecisionAttribute(8, 2)]	CVDCaseDepositRate	decimal	Countervailing case deposit rate. Applicable deposit rate.
[DataMember] [StringLength(10)]	CVDCaseNumber	string	Countervailing case number.
[DataMember] [StringLength(1)]	CVDCaseRateTypeCode	string	Countervailing case rate type qualifier code. The 'type' of rate prescribed by the case. Has Possible Values.
[DataMember] [DecimalPrecisionAttribute(10, 2)]	CVDDutyAmount	decimal	Countervailing duty amount.
[DataMember] [DecimalPrecisionAttribute(12, 4)]	CVDQuantity	decimal	Countervailing quantity. Total number of primary units (which corresponds to the UOM Code prescribed by the case) to be used for calculating the estimated antidumping duty (when a specific rate applies).
[DataMember] [DecimalPrecisionAttribute(10, 0)]	CVDValueOfGoodsAmount	decimal	Countervailing value of goods amount.
[DataMember]	DateOfExportTextile	DateTime?	Date of exportation for textile goods reported with a visa.
[DataMember] [StringLength(60)]	Description	string	Goods description.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(10, 2)]	DutyAmount	decimal	Duty amount calculated for article.
[DataMember] [StringLength(1)]	FeeExemptionCode	string	An indication that the article is exempt from a specific fee. Has Possible Values.
[DataMember]	ForeignExporter	Contact	Foreign Exporter
[DataMember]	ForeignExporter_Id	long?	Foreign Exporter Id
[DataMember]	ForeignPortOfLading	ForeignPort	Foreign port that the merchandise was laden onto

			the importing vessel. (See 'Schedule K – Classification of Foreign Ports).
[DataMember]	ForeignPortOfLading_Id	long?	Foreign port of lading Id.
[DataMember] [DecimalPrecisionAttribute(10, 0)]	FTZLineItemQuantit	decimal	FTZ line item quantity. Quantity of units removed from the FTZ and entered into the commerce of the US.
[DataMember] [StringLength(1)]	FTZMerchandiseStatusCode	string	An indication of FTZ merchandise status. Has Possible Values.
[DataMember]	FTZPrivilegedMerchandiseFilingDate	DateTime?	The date when FTZ Privileged Foreign merchandise entered the zone.
[DataMember] [DecimalPrecisionAttribute(10, 0)]	GrossWeight	decimal	Gross shipping weight of the article in kilograms.
[DataMember] [DecimalPrecisionAttribute(8, 2)]	HarborMaintenanceFee	decimal	Harbor Maintenance Fee (HMF).
[DataMember] [StringLength(3)]	InternalRevenueAccountingClassCode	string	CBP accounting classification code representing a specific Internal Revenue tax type. Has Possible Values.
[DataMember] [StringLength(80)]	InternalRevenueRates	string	Internal Revenue rates
[DataMember]	InternalRevenueTax	bool	Indicates that article has internal revenue tax.
[DataMember] [DecimalPrecisionAttribute(10, 2)]	InternalRevenueTaxAmount	decimal	Internal Revenue (IR) tax amount.
[DataMember] [StringLength(6)]	InternalRevenueTaxType	string	Internal Revenue tax type. Has Possible Values.
[DataMember]	Invoice	ShipmentInvoice	Parent invoice.
[DataMember]	Invoice_Id	long	Parent invoice identifier.

[DataMember] [StringLength(10)]	LicenseCertificatePermitNumber	string	License/ Certificate/ Permit number.
[DataMember] [StringLength(2)]	LicenseCertificatePermitTypeCode	string	License/ Certificate/ Permit Type Code. A code that identifies the license, certificate, permit number reported. Has Possible Values.
[DataMember] [StringLength(3)]	LineItemIdentifier	string	Identifier of line item. Line Item is a notion taken from CATAIR.
[DataMember]	Manufacturer	Contact	Manufacturer/ Supplier
[DataMember] [DecimalPrecisionAttribute(8, 2)]	MerchandiseProcessingFee	decimal	Merchandise Processing Fee (MPF).
[DataMember]	MerchandiseProcessingFeeExempt	bool	Indicates that article is an exempt from MPF.
[DataMember] [StringLength(1)]	NAFTANetCostIndicator	string	Indicates if NAFTA net cost determination applies. Has Possible Values.
[DataMember] [StringLength(3)]	OtherRevenueAccountingClassCode	string	Other, conditional revenue class code. Has Possible Values.
[DataMember]	OtherRevenueTax	bool	Indicates that article has other revenue tax.
[DataMember] [DecimalPrecisionAttribute(10, 2)]	OtherRevenueTaxAmount	decimal	Other, conditional revenue amount.
[DataMember] [StringLength(1)]	ProductClaimCode	string	A code that further identifies a product or request. For example, F – a 'folklore product', M – a textile fashion sample. Has Possible Values.
[DataMember] [StringLength(3)]	PSCLineReasonCode1	string	A code that identifies a reason of Post

			Summary Correction line change. Has Possible Values.
[DataMember] [StringLength(3)]	PSCLineReasonCode2	string	A code that identifies a reason of Post Summary Correction line change. Has Possible Values.
[DataMember] [StringLength(3)]	PSCLineReasonCode3	string	A code that identifies a reason of Post Summary Correction line change. Has Possible Values.
[DataMember] [StringLength(3)]	PSCLineReasonCode4	string	A code that identifies a reason of Post Summary Correction line change. Has Possible Values.
[DataMember] [StringLength(3)]	PSCLineReasonCode5	string	A code that identifies a reason of Post Summary Correction line change. Has Possible Values.
[DataMember] [StringLength(1)]	RelatedPartyIndicator	string	Related Party Indicator. Has Possible Values.
[DataMember] [StringLength(6)]	RulingNumber	string	Ruling number.
[DataMember] [StringLength(1)]	RulingTypeCode	string	Ruling type code. Has Possible Values.
[DataMember] [StringLength(2)]	SpecialProgramClaimCode	string	Special Program Code. A code that specifies an applicable trade agreement or applicable program. Has Possible Values.
[DataMember] [StringLength(9)]	StandardVisaNumber	string	Standard visa number.

[DataMember]	Tariffs	List<ShipmentArticleTariff>	Collection of included tariffs.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(8, 2)]	UserFeeAmount	decimal	User line fee amount.

[1] [ShipmentArticle](#) class has no a manager. Its collection is included to Shipment and saved by Shipment class manager.

Methods:

Attributes	Name	Type	Description
	ToDetailString()	string	Returns object's detailed text representation.
	ToShortString()	string	Returns object's short text representation.
	ToString()	string	Returns object's text representation.

1.1 Shipment Article Tariff.

Class: [DataContract](#)

SMS.Broker.DataContracts.Documents.[ShipmentArticleTariff](#) : [EntityChild](#)

ShipmentArticleTariff class objects represents tariff lines in CBPF 7501. Collection of this objects is included to ShipmentArticle object.

Properties:

Attributes	Name	Type	Description
[DataMember]	CheckMatchPGAValues	bool	Indicates if tariff values are checked against PGA values.
[DataMember] [DecimalPrecisionAttribute(10, 2)]	DutyAmount	decimal	Tariff duty amount.
[DataMember] [StringLength(80)]	DutyRates	string	String representation of duty rate (as percentage and amount).
[DataMember]	HarmonizedTariff	HarmonizedTariff	Harmonized tariff from Harmonized Tariff Schedule.
[DataMember]	HarmonizedTariff_Id	long?	HTS object Id.
[IgnoreDataMember] [NotMapped]	Invoice	ShipmentInvoice	Parent ShipmentInvoice of ShipmentArticle that includes the tariff (parent of parent).

[DataMember]	ManualInputDuty	bool	Property indicates that duty amount was input manually and must be not recalculated by system.
[DataMember]	PGA	PGA	Property refers to PGA (Participated Government Agencies) object.
[DataMember]	PrivilegedForeignStatusHarmonizedTariff	HarmonizedTariff	Current harmonized tariff from HTS for Privileged Foreign Status Merchandise. It is required only for FTZ type customs entries and when harmonized tariff reported on the tariff is no longer an active HTS number.
[DataMember]	PrivilegedForeignStatusHarmonizedTariff_Id	long?	Privileged Foreign Status Harmonized Tariff Id.
[DataMember] [DecimalPrecisionAttribute(13, 2)]	Quantity1	decimal	Total number of primary units, associated with harmonized tariff that corresponds to UnitOfMeasure1.
[DataMember] [DecimalPrecisionAttribute(13, 2)]	Quantity2	decimal	Total number of secondary units, associated with harmonized tariff that corresponds to UnitOfMeasure2.
[DataMember] [DecimalPrecisionAttribute(13, 2)]	Quantity3	decimal	Total number of tertiary units, associated with harmonized tariff that corresponds to UnitOfMeasure3.
[DataMember]	ShipmentArticle	ShipmentArticle	Parent shipment article.
[DataMember]	ShipmentArticle_Id	long	Id of parent shipment article.
[DataMember]	Tariff	CustomerTariff	Tariff.

[DataMember]	Tariff_Id	long?	Tariff Id.
[DataMember] [DecimalPrecisionAttribute(13, 0)]	TariffMMV	decimal	Tariff Added To Make Market Value.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(9, 0)]	TariffMMVUSD	decimal	Tariff MMV in USD.
[DataMember] [DecimalPrecisionAttribute(13, 0)]	TariffNonDutiable	decimal	Tariff non-dutable value.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(9, 0)]	TariffNonDutiableUSD	decimal	Tariff non-dutable value in USD.
[DataMember] [DecimalPrecisionAttribute(13, 0)]	TariffOther	decimal	Other fee.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(9, 0)]	TariffOtherUSD	decimal	Other fee in USD.
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(9, 0)]	TariffTotalUSD	decimal	Tariff total in USD. (TariffValueUSD + TariffMMVUSD - TariffNonDutiableUSD + TariffOtherUSD)
[DataMember] [DecimalPrecisionAttribute(13, 0)]	TariffValue	decimal	Value of goods amount (value of article).
[IgnoreDataMember] [NotMapped] [DecimalPrecisionAttribute(9, 0)]	TariffValueUSD	decimal	Value of goods amount in USD.
[DataMember] [StringLength(3)]	UnitOfMeasure1	string	A unit of measure code that corresponds to Quantity1. Has Possible Values.
[DataMember] [StringLength(3)]	UnitOfMeasure2	string	A unit of measure code that corresponds to Quantity2. Has Possible Values.
[DataMember] [StringLength(3)]	UnitOfMeasure3	string	A unit of measure code that corresponds to Quantity3. Has Possible Values.
[DataMember] [StringLength(3)]	UserFeeAccountingClassCode	string	User fee accounting class code. Has Possible Values.
[DataMember] [DecimalPrecisionAttribute(8, 2)]	UserFeeAmount	decimal	User fee amount.

Methods:

Attributes	Name	Type	Description
	ToShortString()	string	Returns short object's text representation.
	ToString()	string	Returns object's text representation.

[1] [ShipmentArticleTariff](#) class has no a manager. Its collection is included to Shipment article and saved by Shipment class manager.

1.1.1 Customer Tariff.

Class: [\[DataContract\]](#)

`SMS.Broker.DataContracts.Directories.CustomerTariff : EntityDirectory`

It's a support class. Tariff numbers used for some contact are added to a list with their default parameters. It helps to speed up ShipmentArticleTariff HarmonizedTariff property filing.

Properties:

Attributes	Name	Type	Description
[Required] [StringLength(10)] [DataMember]	Code	string	A code from HTS of United States that represents tariff number.
[DataMember]	Contact	Contact	Contact for which tariff number was added.
[DataMember]	Contact_Id	long?	Parent shipment article Id.
[StringLength(7)] [DataMember]	DefaultFDAProductCode	string	FDA product code usually used.
[Required] [StringLength(60)] [DataMember]	Name	string	User commodity description.
[StringLength(7)] [DataMember]	RulingNumber	string	Ruling number usually used.
[DataMember] [StringLength(2)]	SpecialProgramClaimCode	string	Special Program Claim Code usually used. Has Possible Values.

Interface: [\[ServiceContract\]](#)

`SMS.Broker.ServiceContracts.Directories.ICustomerTariffManager : IEntityManagerDirectory<CustomerTariff>`

Methods:

Attributes	Name	Type	Description
[OperationContract]	GetCustomerTariffByCode(long contactId, string code)	CustomerTariff	Returns customer tariff by its HTS (tariff) number and contact Id.

[OperationContract]	GetCustomerTariffsByCode(long? contactId, string code)	List<CustomerTariff>	Returns a list of customer tariffs by HTS (tariff) number and contact Id. Allows to use starting part of tariff number.
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1.2 Shipment Article Additional Declaration.

Class: [DataContract]

SMS.Broker.DataContracts.Documents.[ShipmentArticleAdditionalDeclaration](#) : EntityChild

Importer's Additional Declarations in CBPF 7501.

Properties:

Attributes	Name	Type	Description
[DataMember] [StringLength(76)]	Information	string	Importer's Additional Declaration information.
[IgnoreDataMember] [NotMapped]	InformationElements	InformationXX	Property is used to apply a formatting to different type of declarations.
[DataMember]	ShipmentArticle	ShipmentArticle	Parent shipment article.
[DataMember]	ShipmentArticle_Id	long	Parent shipment article Id.
[DataMember] [StringLength(2)]	TypeCode	string	A type of additional declaration. Has Possible Values.

Methods:

Attributes	Name	Type	Description
	ToString()	string	Returns object's text representation.

[1] [ShipmentArticleAdditionalDeclaration](#) class has no a manager. Its collection is included to Shipment and saved by Shipment class manager.

1.1.1 Importer's declaration.

Abstract class: [InformationXX](#)

Class is included to [ShipmentArticleAdditionalDeclaration](#) and used to format different types of importer's declaration. It is abstract class and can't be used directly but has derived classes.

Properties:

Attributes	Name	Type	Description
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	Data	string	Declaration data as formatted string.
	TypeCode	string	Customs declaration code ("01", "02", ...).
	TypeName	string	"Custom " + Code

Methods:

Attributes	Name	Type	Description
	GetDataString()	string	Abstract method. Derived classes returns data as formatted string.
	ToString()	string	Returns object's text representation.

Derived class	Description
Information00	Default case.
Information01	01 – Softwood Lumber Export Information.
Information02	02 – Product Exclusion Information – Steel products.
Information03	03 – Product Exclusion Information – Aluminum products.
Information04	04 – South Korean (KR) Export Steel Certificate
Information05	05 – CBMA Product Detail.
Information07	07 – Aluminum Smelt and Cast Country Detail.

Class: Information00 : InformationXX

Properties:

Attributes	Name	Type	Description
[StringLength(76)]	AdditionalDeclarationInformation	string	Base class Data property (declaration data) trimmed to 76 positions.

Class: Information01 : InformationXX

Properties:

Attributes	Name	Type	Description
[StringLength(1)]	DeclarationIndicator	string	An indication if the information provided meets the requirements of the Softwood Lumber Act of 2008. Has Possible Values.
[DecimalPrecision(10, 0)]	ExportCharges	decimal	The tax, charge, or other fee collected by

			the country from which softwood lumber or a softwood lumber product is exported.
[DecimalPrecision(10, 0)]	ExportPrice	decimal	The export price for the shipment.

Class: Information02 : InformationXX

Properties:

Attributes	Name	Type	Description
[StringLength(9)]	ProductExclusionIdentifier	string	Product Exclusion Identifier in the format provided by an applicable agency.

Class: Information03 : InformationXX

Properties:

Attributes	Name	Type	Description
[StringLength(9)]	ProductExclusionIdentifier	string	Product Exclusion Identifier in the format provided by an applicable agency.

Class: Information04 : InformationXX

Properties:

Attributes	Name	Type	Description
[StringLength(9)]	CertificateOfExportationNumber	string	Official certificate of exportation number issued by the Republic of Korea.

Class: Information05 : InformationXX

Properties:

Attributes	Name	Type	Description
[DecimalPrecision(12, 4)]	AllocationQuantity	decimal	Allocation Quantity.
[DataMember] [StringLength(6)]	CBMARateDesignationCode	string	CBMA Rate Designation Code.
[StringLength(10)]	ControlledGroupName	string	Controlled Group Name. The 'name' assigned to the Importer by the foreign producer.
[StringLength(1)]	FlavorContentCreditIndicator	string	Flavor Content Credit Indicator. Has Possible Values.
[StringLength(18)]	ForeignProducerIdentifier	string	Foreign Producer Identifier.
[StringLength(21)]	ForeignProducerName	string	Foreign Producer

			Name.
[DecimalPrecision(8, 4)]	TTBTaxRate	decimal	TTB Tax Rate (Confirmation).

Class: [Information07](#) : [InformationXX](#)

Properties:

Attributes	Name	Type	Description
[StringLength(2)]	CountryOfCast	string	Country of Cast Code. Has Possible Values.
[StringLength(2)]	PrimaryCountryOfSmelt	string	Primary Country of Smelt Code. Has Possible Values.
[StringLength(2)]	SecondaryCountryOfSmelt	string	Secondary Country of Smelt Code. Has Possible Values.

1.3 Shipment Article Census Warning.

Class: [DataContract](#)

SMS.Broker.DataContracts.Documents.[ShipmentArticleCensusWarning](#) : [EntityChild](#)

CBPF 7501 Census Warning records.

Properties:

Attributes	Name	Type	Description
[DataMember] [StringLength(3)]	Condition	string	Census Warning Condition code. Has Possible Values.
[DataMember] [StringLength(2)]	OverrideCode	string	Census Warning Override code. Code that identifies a reason why the submitted data values caused the Census warning condition. Has Possible Values.
[DataMember]	ShipmentArticle	ShipmentArticle	Parent shipment article.
[DataMember]	ShipmentArticle_Id	long	Parent shipment article Id.
[DataMember] [StringLength(10)]	Tariff	string	HTS (tariff) number.

Methods:

Attributes	Name	Type	Description
	ToString()	string	Returns object's text representation.

[1] [ShipmentArticleCensusWarning](#) class has no a manager. Its collection is included to Shipment article and saved by Shipment class manager.