

SMS Broker System
Software Integration

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

**In-Bond
classes and interfaces.**

(ver. from 8/31/2025)

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1. In-Bond.

In-Bond document represents an info that is necessary for CBPF-7512 submission.

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

SMS.Broker.DataContracts.Documents.[InBond](#) : [EntityDocument](#)

Header data of In-Bond document.

Properties:

Attributes	Name	Type	Description
[DataMember] [StringLength(2)]	ActionStatus	string	Current result of In-Bond movements: "Arrived at destination", "Exported from destination" and so on. Has Possible Values.
[DataMember]	Bills	List<InBondBill>	Collection of bills of lading associated with the in-bond
[DataMember]	BTAFDAIndicator	bool	BTA/FDA Indicator.
[DataMember]	Carrier	Contact	In-Bond Carrier.
[DataMember]	Carrier_Id	long?	In-Bond Carrier Id.

[DataMember] [StringLength(20)]	ClientRef	string	Client reference.
[DataMember] [StringLength(3)]	ConveyanceType	string	Conveyance type. It is defined by its AMS status. "AMS" – Existing Bill of Lading, "AIR" – Existing Bill of Lading (Air), "NAC" – Non-Automated carrier, "FTZ" – Withdrawal from a FTZ or bonded warehouse. Has Possible Values.
[DataMember] [StringLength(8)]	CustomsEntryNumber	string	For CBPF-7512 print form only. Previous Entry Number field ("Entry No." field on the form) can be a Customs Entry Number.
[DataMember] [Column(TypeName = "date")]	EstimatedDateOfArrival	DateTime?	The date of arrival at the port of unloading.
[DataMember]	ImportingCarrier	Carrier	Importing Carrier.
[DataMember]	ImportingCarrier_Id	long?	Importing Carrier Id.
[DataMember] [StringLength(2)]	ImportingCarrierCountry	string	Has Possible Values.
[DataMember] [StringLength(23)]	ImportingConveyanceName	string	The name of importing conveyance.
[DataMember]	ImportingTransportationMode	string	Has Possible Values.
[DataMember] [StringLength(2)]	InBondEntryType	string	The type of in-bond. "61" - Immediate Transportation (IT) "62" - Transportation and Exportation (T&E) "63" - Immediate Exportation (IE) Has possible values.
	InBondLevel	enum	InBond = 0, Bill = 1, Container = 2.
[DataMember] [StringLength(12)]	InBondNumber	string	Number of In-Bond.
[DataMember]	InBondPort	CustomsPort	For CBPF-7512 print form only ("PORT CODE NO." and "PORT OF" fields on the form).
[DataMember]	InBondPort_Id	long?	In Bond Port Id.
[DataMember]	LastStatuses	List<EntityLastStatus>	Last status collection. In-Bond statuses.
[DataMember]	Location	FIRM	Foreign Trade Zone or bonded warehouse.
[DataMember]	Location_Id	long?	Location Id.
[DataMember] [StringLength(60)]	PartyOfDisposition	string	For CBPF-7512 print form only ("Consignee" value on the form).
[DataMember]	PortOfDestination	CustomsPort	Domestic port of: 1. termination for an IT '61', 2. exportation for a T&E '62',

			3. arrival for an IE '63'.
[DataMember]	PortOfDestination_Id	long?	Port of Destination Id.
[DataMember]	PortOfForeignDestination	ForeignPort	Foreign port of destination for a T&E '62' or IE '63'. It is empty for IT '61'.
[DataMember]	PortOfForeignDestination_Id	long?	Port of Foreign Destination Id.
[DataMember]	PortOfImportingConveyanceArrival	CustomsPort	Domestic port of unloading. For subsequent in-bond move, it is a destination port of the previously authorized In-Bond.
[DataMember]	PortOfImportingConveyanceArrival_Id	long?	Port of Importing Conveyance Arrival Id.
[DataMember] [Obsolete("LastStatuses", false)]	Statuses	List<EntityStatus>	Obsolete. Use LastStatuses instead. In-Bond statuses.
[DataMember] [DecimalPrecisionAttribute(8, 0)]	Value	decimal	A value in whole dollars of the in-bond movement.
[DataMember] [StringLength(5)]	VoyageFlightTripNumber	string	The voyage, flight or trip number of the importing carrier.

Interface: [ServiceContract]
SMS.Broker.ServiceContracts.Documents.IInBondManager :
IEntityManagerDocument<SMS.Broker.DataContracts.Documents.InBond> [1]

Methods:

Attributes	Name	Type	Description
[OperationContract] [FaultContract(typeof(ActionFault))]	CalculateInBondNumber(long number, bool checkUnique = false, bool adjustSequence = false)	string	Returns In-Bond number with a checksum, optionally checks for uniqueness and adjusts a current number in a sequence.
[OperationContract(IsOneWay = true)]	PutToQueueOneWay(long id, InBond.ActionQUE action)	void	Asynchronous method that creates outgoing ABI transmission and adds it to SMS database. [2]
[OperationContract] [FaultContract(typeof(EntryValidationFault))] [FaultContract(typeof(ActionFault))]	PutToQueue(long id, InBond.ActionQUE action)	long	Synchronous method that creates outgoing ABI transmission, adds it to SMS database and returns ABI transmission

			record Id. [2]
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[1] - The features of `IInBondManager` those are different from other Operation Contract inherited classes.

a) `New(long? SourceId)` method returns a new `IInBondManager` class object. Its number will be assigned by "InBond" sequence.

b) For `Save(IInBondManager entity)` method `InBondEntryType` and `ConveyanceType` properties are required.

In a general case by this method on the server side the `IInBondManager` object's record will be saved with the records corresponded to the follow collections:

`InBond.Bills`,
`InBond.Bills.Containers`,
`InBond.Bills.Containers.CargoDescriptions`,
`InBond.Bills.Containers.HazardousMaterials`,
`InBond.Bills.Containers.MarksAndNumbers`,
`InBond.Bills.Containers.Tariffs`,
`InBond.Bills.References`.

`InBond.Bills.AMSContainers` collection is created and modified by ABI In-Bond Status Notifications.

If `InBond` object was created on client side by constructor `new InBond()` instead of `New(long? SourceId)` method and its `Number` property is zero then on server side `Number` property will be set to the next number of "InBond" sequence.

c) `ValidateTreeById(long Id, string action)`
action:

"QUE QP A" - on In-Bond case `ValidateTreeById(long Id, string action)` method makes the same data validation as it is used before to send ABI application (QP) to Customs. If validation process was not successful `EntryValidationFault` will be thrown.

d) The follow statuses are used for In-Bond document.

Entity status type:

`EntityStatusType.ABIAppQUE`

Entity status values:

`EntityStatusValue.ABIAppPutToQUE`
`EntityStatusValue.ABIAppSent`
`EntityStatusValue.ABIAppRejected`
`EntityStatusValue.ABIAppPutToQUEError`
`EntityStatusValue.ABIAppIncoming`
`EntityStatusValue.ABIAppRemoveFromQUE`

Entity status type:

`EntityStatusType.ABIAppCustoms`

Entity status values:

`EntityStatusValue.ABIAppCustomsAccepted`
`EntityStatusValue.ABIAppCustomsDeletedInCustoms`

On the table bellow you can see all changes in In-Bond document last status (Status Type and Status Value properties) those undergo during data exchange with Customs. The actions which suggest some workflow problem are marked in red.

Action	Status Type	Status Value
QP Put to queue→	<code>EntityStatusType.ABIAppQUE</code>	<code>EntityStatusValue.ABIAppPutToQUE</code>
QP ←Put to queue error	<code>EntityStatusType.ABIAppQUE</code>	<code>EntityStatusValue.ABIAppPutToQUEError</code>
QP ←Remove (if	<code>EntityStatusType.ABIAppQUE</code>	<code>EntityStatusValue.ABIAppRemoveFromQUE</code>

necessary)		
QP Transmit→	<code>EntityStatusType.ABIAppQUE</code>	<code>EntityStatusValue.ABIAppSent</code>
QT ←Get file	<code>EntityStatusType.ABIAppQUE</code>	<code>EntityStatusValue.ABIAppIncoming</code>
QT ←Get with error	<code>EntityStatusType.ABIAppQUE</code>	<code>EntityStatusValue.ABIAppIncomingError</code>
QT ←Rejected	<code>EntityStatusType.ABIAppQUE</code>	<code>EntityStatusValue.ABIAppRejected</code>
QT ←Accepted	<code>EntityStatusType.ABIAppCustoms</code>	<code>EntityStatusValue.ABIAppCustomsAccepted</code>
QT ←Deleted (Canceled) by Customs by importer's request.	<code>EntityStatusType.ABIAppCustoms</code>	<code>EntityStatusValue.ABIAppCustomsDeletedInCustoms</code>
NS ←Get file	<code>EntityStatusType.ABIAppQUE</code>	<code>EntityStatusValue.ABIAppIncoming</code>
NS ←Get file with error	<code>EntityStatusType.ABIAppQUE</code>	<code>EntityStatusValue.ABIAppIncomingError</code>

QP – In-Bond Customs incoming (our outgoing) file.

QT – In-Bond Customs outgoing (our incoming) file.

NS – In-Bond Status Notification Customs outgoing (our incoming) file.

Initially the response from Customs should come to our QP file sent. It comes on QT file. If our file is accepted Customs sends In-Bond Status Notification (NS) file. You can also get In-Bond Status Notification as a Third Party (when In-Bond status is changed by another ABI participant).

e) Actions and Action Statuses.

Action in QP application.		Action Status returned by NS application.		Level
Code	Description	Code	Description	
"A"	Add In-Bond	"MA"	In-Bond movement authorized	In-Bond, Bill
"B"	Delete In-bond from Bill	"DI"	In-bond deleted	In-Bond, Bill
"D"	Delete In-bond from all associated Bills	"DI"	In-bond deleted	In-Bond, Bills

[2] – Methods can be used instead of more general method `PutToQueueOneWay(string AppId, List<Parameter> parameters)` described in `SMS.Broker.ServiceContracts.IsmsABIManager`. Since it is used for In-Bond only it has more simple set of parameters.

`PutToQueueOneWay(long id, InBond.ActionQUE action)` - asynchronous
`PutToQueue(long id, InBond.ActionQUE action)` - synchronous

Parameters:

id – In-Bond Bill Id if `ActionQUE` is `DeleteInBondFromBill`, otherwise In-Bond Id.
action -
`InBond.ActionQUE.Add`,
`InBond.ActionQUE.DeleteInBondFromBill`,
`InBond.ActionQUE.DeleteInBondFromAllBills`.

For example:

```
var mgr =
ClientContext.ServicesFactory.GetManager<SMS.Broker.ServiceContracts.Documents.
IInBondManager>();
mgr.PutToQueueOneWay(5L, Broker.DataContracts.Documents.InBond.ActionQUE.Add);
```

1.1 In-Bond Bill.

Class: [DataContract]

SMS.Broker.DataContracts.Documents.InBondBill : EntityChild

In-Bond Bill info.

Properties:

Attributes	Name	Type	Description
[DataMember] [StringLength(2)]	ActionStatus	string	Current result of In-Bond Bill movements: "Arrived at destination", "Exported from destination" and so on. Has Possible Values.
[DataMember]	AMSContainers	List<InBondBillAMSCo ntainer>	Information about containers that comes from AMS. [2]
[DataMember]	CBPPortDirector	CustomsPort	Customs Port. For CBPF-7512 print form only ("CBP Port Director" and "Port" fields on the form).
[DataMember]	CBPPortDirector_Id	long?	Customs Port Id.
[DataMember]	Consignee	Contact	Consignee.
[DataMember]	Consignee_Id	long?	Consignee Id.
[DataMember]	Containers	List<InBondBillConta iner>	A list of containers those are belong to the Bill.[2]
[DataMember] [StringLength(2)]	CountryOfExportation	string	Country of exportation. Has Possible Values. For CBPF-7512 print form only ("Exported from" field on the form).
[DataMember] [Column(TypeName = "date")]	DateOfSailing	DateTime?	Date of sailing. For CBPF-7512 print form only ("Date of sailing" field on the form).
[DataMember] [Column(TypeName = "date")]	ExportationDate	DateTime?	Date of exportation. For CBPF-7512 print form only ("on" field as a continuation of "Exported from" field on the form).
[DataMember]	ForeignPortOfLading	ForeignPort	Foreign Port of Lading. It is used on non-FTZ conveyance type case.
[DataMember]	ForeignPortOfLading_Id	long?	Foreign Port of Lading Id.

[DataMember] [StringLength(13)]	GONumber	string	General Order Number. For CBPF-7512 print form only ("G.O. No." field on the form).
[DataMember]	HouseBillIssuer	Carrier	House Bill issuer.
[DataMember]	HouseBillIssuer_Id	long?	House Bill issuer Id.
[StringLength(12)] [DataMember]	HouseBillNumber	string	House Bill Number.
[DataMember]	Importer	Contact	Importer. For CBPF-7512 print form only ("Entered or imported by" and "Importer/IRS#" fields on the form).
[DataMember]	Importer_Id	long?	Importer Id.
[DataMember]	InBond	InBond	The reference to In-Bond document this Bill belongs to.
[DataMember]	InBond_Id	long	Id of In-Bond this Bill belongs to.
[DataMember] [DecimalPrecisionAttribute(10, 0)]	InBondQuantity	decimal	In-Bond quantity when it is not full manifested.
[DataMember]	InBondQuantityFullManifested	bool	True, if In-Bond quantity is full manifested.
[DataMember]	LastStatuses	List<EntityLastStatus>	Last status collection.
[DataMember] [DecimalPrecisionAttribute(10, 0)]	ManifestQuantity	decimal	The total number of pieces on the bill of lading.
[StringLength(5)] [DataMember]	ManifestQuantityUnit	string	A code representing the manifest unit of measure. Has Possible values.
[DataMember]	MasterBillIssuer	Carrier	Master Bill issuer.
[DataMember]	MasterBillIssuer_Id	long?	Master Bill issuer Id.
[StringLength(12)] [DataMember]	MasterBillNumber	string	Master Bill Number.
[DataMember]	Notify	Contact	Notify Party.
[DataMember]	Notify_Id	long?	Notify Party Id.
[StringLength(17)] [DataMember]	PlaceOfPreReceipt	string	Place of Pre-receipt.
[DataMember] [StringLength(3)]	PreviousFilerCode	string	Previous Filer Code. For CBPF-7512 print form only (filer code on the left upper corner of the form).
[StringLength(12)] [DataMember]	PreviousInBondNumber	string	Previous In-Bond Number.
[DataMember] [Column(TypeName = "date")]	PreviousITDate	DateTime?	Previous IT Date. For CBPF-7512 print form only ("Previous Date" field on the left upper corner of

			the form).
[DataMember]	PreviousPort	CustomsPort	Previous domestic port. For CBPF-7512 print form only ("Port" field on the left upper corner of the form).
[DataMember]	PreviousPort_Id	long?	Previous Port Id.
[DataMember]	References	List<InBondBillReference>	Collection of Bill references.
[StringLength(9)] [DataMember]	SecondaryNotifyPartyCode1	string	First SNP (secondary notify party) code. Not used. [1]
[StringLength(9)] [DataMember]	SecondaryNotifyPartyCode2	string	Second SNP (secondary notify party) code. Can be SNP's SCAC or FIRMS in lieu of the SCAC (for MOT's 10, 11 and 20, 21).
[StringLength(9)] [DataMember]	SecondaryNotifyPartyCode3	string	Third SNP (secondary notify party) code. Can be SNP's SCAC or FIRMS in lieu of the SCAC (for MOT's 10, 11 and 20, 21).
[StringLength(9)] [DataMember]	SecondaryNotifyPartyCode4	string	Fourth SNP (secondary notify party) code. Can be SNP's SCAC or FIRMS in lieu of the SCAC (for MOT's 10, 11 and 20, 21).
[DataMember]	SequenceNumber	string	Sequence number is used to identify the position of Bill info in CBP QP application.
[DataMember]	Shipper	Contact	Foreign Shipper.
[DataMember]	Shipper_Id	long?	Foreign Shipper Id.
[DataMember] [Obsolete("LastStatuses", false)]	Statuses	List<EntityStatus>	Obsolete. Use LastStatuses instead. Bill Statuses.
[DataMember] [DecimalPrecisionAttribute(10, 0)]	Volume	decimal	A value representing the shipment's volume.
[StringLength(2)] [DataMember]	VolumeUnit	string	A code representing the unit of volume. Has Possible values.
[DataMember] [DecimalPrecisionAttribute(10, 0)]	Weight	string	Gross weight.

[StringLength(2)] [DataMember]	WeightUnit	string	A code representing the unit of weight. Has Possible values.
[DataMember]	WithdrawnForVesselSupplies	bool	Not Used.

[1] By default it is suggested that first SNP (secondary notify party) is an ABI filer and its SNP code is sent to Customs by default. This code is always: **NNNNXXXNN** where **NNNN** is the Schedule D CBP port code of the secondary notify party; **XXX** is the filer code; and **NN** is the office code, if used by the filer.

[2] Containers collection is empty on the case of short transaction In-Bond (QP-Short). The AMS Containers collection is used because of a necessity to monitor containers action status on both: short and long transactions cases and is empty only if a freight is non-containerized or info is absent in AMS. The AMS Containers collection is added by In-Bond Status Notification (NS) application.

Methods:

Attributes	Name	Type	Description
	ToShortString()	string	Returns short text representation. <code>Line.ToString() + ". " + (MasterBillIssuer == null ? "" : MasterBillIssuer.Code.ToString()) + ":" + (MasterBillNumber == null ? "" : MasterBillNumber);</code>
	ToString()	string	Returns text representation. The same as ToShortString().

1.2 In-Bond Bill Container.

Class: [DataContract]
SMS.Broker.DataContracts.Documents.InBondBillContainer
: EntityChild

In-Bond Bill Container info.

Properties:

Attributes	Name	Type	Description
[DataMember] [StringLength(2)]	ActionStatus	string	Current result of container movements: "Arrived at destination", "Exported from destination" and so on.

			Has Possible Values.
[DataMember]	CargoDescriptions	List<InBondBillContainerCargoDescription>	Collection of Cargo Descriptions.
[StringLength(2)] [DataMember]	ContainerDescriptionCode	string	Type of Container. Has Possible Values.
[StringLength(14)] [DataMember]	ContainerNumber	string	Container Number.
[DataMember]	HazardousMaterials	List<InBondBillContainerHazardousMaterials>	Hazardous materials Collection.
[DataMember]	InBondBill	InBondBill	The reference to Bill this Container belongs to.
[DataMember]	InBondBill_Id	long	Id of Bill this Container belongs to.
[DataMember]	MarksAndNumbers	List<InBondBillContainerMarksAndNumbers>	Marks and Numbers Collection.
[DataMember]	NonContainerized	bool	true if freight is non-containerized.
[StringLength(15)] [DataMember]	SealNumber1	string	Exporter/carrier Seal Number.
[StringLength(15)] [DataMember]	SealNumber2	string	Exporter/carrier Seal Number.
[DataMember]	Tariffs	List<InBondBillContainerTariff>	Tariffs collection.

Methods:

Attributes	Name	Type	Description
	ToShortString()	string	Returns short text representation. Line.ToString() + ". " + (ContainerNumber == null ? "" : ContainerNumber)
	ToString()	string	Returns text representation. The same as ToShortString().

1.3 In-Bond Bill Container Cargo Description.

Class: [DataContract]

SMS.Broker.DataContracts.Documents.InBondBillContainerCargoDescription
: EntityChild

In-Bond Bill Container Cargo Description info.

Properties:

Attributes	Name	Type	Description
------------	------	------	-------------

[StringLength(45)] [DataMember]	Description	string	Description of the cargo.
[DataMember]	InBondBillContainer	InBondBillContainer	Container this Container Cargo Description belongs to.
[DataMember]	InBondBillContainer_Id	long	Id of Container this Container Cargo Description belongs to.
[StringLength(3)] [DataMember]	ManifestUnit	string	Manifest unit of measure. Has Possible Values.
[DataMember] [DecimalPrecisionAttribute(10, 0)]	PieceCount	decimal	Number of the smallest exterior package unit.

1.4 In-Bond Bill Container Hazardous Material.

Class: [DataContract]

SMS.Broker.DataContracts.Documents.InBondBillContainerHazardousMaterials

: EntityChild

In-Bond Bill Container Hazardous Material info.

Properties:

Attributes	Name	Type	Description
[DataMember] [DecimalPrecisionAttribute(3, 0)]	FlashpointTemperature	decimal	Flashpoint temperature of combustible liquid.
[StringLength(2)] [DataMember]	FlashpointTemperatureUnit	string	Unit of measurement for the flashpoint temperature. Has Possible Values.
[StringLength(4)] [DataMember]	HazardousMaterialClass	string	Hazardous Material Class.
[StringLength(30)] [DataMember]	HazardousMaterialClassification1	string	Free form description of hazardous material classification.
[StringLength(30)] [DataMember]	HazardousMaterialClassification2	string	Free form description of hazardous material classification.
[StringLength(10)] [DataMember]	HazardousMaterialCode	string	Identification number of Hazardous Material.
[StringLength(1)] [DataMember]	HazardousMaterialCodeQualifier	string	Hazardous Material Code Qualifier. Has Possible Values.
[StringLength(24)] [DataMember]	HazardousMaterialContact	string	Name and/or phone number of the person or department to contact in case of an emergency.
[StringLength(30)] [DataMember]	HazardousMaterialDescription	string	Hazardous Material Description.
[StringLength(29)]	HazardousMaterialDescription1	string	Material name, special

[DataMember]			instructions and/or phone number if any.
[StringLength(29)] [DataMember]	HazardousMaterialDescription2	string	Material name, special instructions and/or phone number if any.
[DataMember]	InBondBillContainer	InBondBillContainer	Container this Container Hazardous Material item belongs to.
[DataMember]	InBondBillContainer_Id	long	Id of Container this Container Hazardous Material item belongs to.

1.5 In-Bond Bill Container Marks and Numbers.

Class: [DataContract]

SMS.Broker.DataContracts.Documents.InBondBillContainerMarksAndNumbers

: EntityChild

In-Bond Bill Container Marks and Numbers info.

Properties:

Attributes	Name	Type	Description
[DataMember]	InBondBillContainer	InBondBillContainer	Container this Container Marks and Numbers item belongs to.
[DataMember]	InBondBillContainer_Id	long	Id of Container this Container Marks and Numbers item belongs to.
[StringLength(45)] [DataMember]	MarksAndNumbers	string	Marks and Numbers.

1.6 In-Bond Bill Container Tariffs.

Class: [DataContract]

SMS.Broker.DataContracts.Documents.InBondBillContainerTariff

: EntityChild

In-Bond Bill Container Tariffs info.

Properties:

Attributes	Name	Type	Description
[StringLength(10)] [DataMember]	HarmonizedTariffNumber	string	Harmonized Tariff Schedule (HTS) code of commodity.
[DataMember]	InBondBillContainer	InBondBillContainer	Container this Tariff item belongs to.

[DataMember]	InBondBillContainer_Id	long	Id of Container this Tariff item belongs to.
[DataMember] [DecimalPrecisionAttribute(8, 0)]	Value	decimal	Value of commodity.
[DataMember] [DecimalPrecisionAttribute(10, 0)]	Weight	decimal	Weight of commodity.
[StringLength(2)] [DataMember]	WeightUnit	string	Unit of weight code. Has Possible Values.

2. In-Bond Update/Transfer.

In-Bond Update/Transfer document represents an info that is used to arrive, export, and transfer the liability of In-Bonds.

Class: [DataContract]

SMS.Broker.DataContracts.Documents.InBondUpdate : EntityDocument

Data of In-Bond Update/Transfer document.

Properties:

Attributes	Name	Type	Description
[DataMember] [StringLength(1)]	ActionCode	string	A code of update/transfer action (arrive entire in-bond at destination, arrive bill of lading at destination and so on) to be taken. Has Possible Values.
[DataMember]	Carrier	Contact	Not used.
[DataMember]	Carrier_Id	long?	Carrier Id.
[DataMember]	CarrierFIRM	FIRM	On "FTZ" Conveyance Type the FIRMS code of the FTZ or bonded warehouse is used instead of the SCAC of the carrier (MasterBillIssuer property).
[DataMember]	CarrierFIRM_Id	long?	Carrier FIRMS Id.
[DataMember] [StringLength(19)]	City	string	The name of the city where the transfer of liability occurs.
[DataMember] [StringLength(20)]	ClientRef	string	Client reference.
[DataMember] [StringLength(14)]	ContainerNumber	string	Container Number. It is necessary for actions pertaining to container. Not required for Air.
[DataMember] [StringLength(3)]	ConveyanceType	string	Conveyance type. It is defined by its AMS status.

			<p>“AMS” – Existing Bill of Lading, “Air” – Existing Bill of Lading (Air), “NAC” – Non-Automated carrier, “FTZ” – Withdrawal from a FTZ or bonded warehouse.</p> <p>Has Possible Values.</p>
[DataMember] [StringLength(23)]	ExportConveyance	string	Exporting conveyance name.
[DataMember] [StringLength(2)]	ExportTransportationMode	string	<p>Mode of transportation code of the exporting conveyance.</p> <p>Has Possible Values.</p>
[DataMember]	HouseBillIssuer	Carrier	Not used.
[DataMember]	HouseBillIssuer_Id	long?	Not used.
[StringLength(12)] [DataMember]	HouseBillNumber	string	House Bill of Lading number.
[DataMember]	InBond	InBond	In-Bond document the update/transfer action is applied to.
[DataMember]	InBond_Id	long?	In-Bond Id.
[DataMember]	InBondBillContainer_Id	long	Id of Container this Tariff item belongs to.
[DataMember]	LastStatuses	List<EntityLastStatus>	Last status collection. In-Bond Update/Transfer statuses.
[DataMember]	LocationOfArrival	FIRM	FIRMS Location on In-Bond Arrival.
[DataMember]	LocationOfArrival_Id	long?	Location Of Arrival Id.
[DataMember]	MasterBillIssuer	Carrier	Issuer code (SCAC) of Simple/Regular Master Bill of Lading.
[DataMember]	MasterBillIssuer_Id	long?	Master Bill Issuer Id.
[StringLength(12)] [DataMember]	MasterBillNumber	string	Simple/Regular Master Bill of Lading number.
[DataMember]	NewCarrier	Contact	<p>In-bond carrier on the cases of:</p> <ol style="list-style-type: none"> 1. transfer of in-bond liability for entire in-bond; 2. diversion request.
[DataMember]	NewCarrier_Id	long?	New Carrier Id.
[DataMember]	PortOfArrival	CustomsPort	The domestic port code of of destination for the in-bond, bill of lading/air waybill or container movement.
[DataMember]	PortOfArrival_Id	long?	Port Of Arrival Id.
[DataMember] [StringLength(2)]	State	string	The corresponding state code if a city name is supplied.

			Has Possible Values.
[DataMember] [Obsolete("LastStatuses", false)]	Statuses	List<EntityStatus>	Obsolete. Use LastStatuses instead. In-Bond Update/Transfer statuses.
[DataMember]	Time	DateTime	Time of arrival or export at the destination port or the time of transfer of in-bond liability.

Interface: [ServiceContract]
SMS.Broker.ServiceContracts.Documents.IInBondUpdateManager :
IEntityManagerDocument<SMS.Broker.DataContracts.Documents.InBond> [1]

Methods:

Attributes	Name	Type	Description
[OperationContract] [FaultContract(typeof(EntryValidationFault))] [FaultContract(typeof(ActionFault))]	PutToQueue(long id)	long	Synchronous method that creates outgoing ABI transmission, adds it to SMS database and returns ABI transmission record Id. [2]
[OperationContract(IsOneWay = true)]	PutToQueueOneWay(long id)	void	Asynchronous method that creates outgoing ABI transmission and adds it to SMS database. [2]

[1] - The features of IInBondUpdateManager those are different from other Operation Contract inherited classes.

a) New(long? SourceId) method returns a new IInBondUpdateManager class object. Its number will be assigned by "InBondUT" sequence.

If IInBondUpdateManager object was created on client side by constructor new IInBondUpdateManager() instead of New(long? SourceId) method and its Number property is zero then on server side Number property will be set to the next number of "InBondUT" sequence.

b) ValidateTreeById(long Id, string action)
action:

"QUE WP A" - on In-Bond Transfer/Update case ValidateTreeById(long Id, string action) method makes the same data validation as it is used before to send ABI application (WP) to Customs. If validation process was not successful EntryValidationFault will be thrown.

c) The follow statuses are used for In-Bond document.

Entity status type:
EntityStatusType.ABIAppQUE

Entity status values:

[EntityStatusValue.ABIAppPutToQUE](#)
[EntityStatusValue.ABIAppSent](#)
[EntityStatusValue.ABIAppRejected](#)
[EntityStatusValue.ABIAppPutToQUEError](#)
[EntityStatusValue.ABIAppIncoming](#)
[EntityStatusValue.ABIAppRemoveFromQUE](#)

Entity status type:

[EntityStatusType.ABIAppCustoms](#)

Entity status values:

[EntityStatusValue.ABIAppCustomsAccepted](#)

On the table below you can see all changes in In-Bond document last status (Status Type and Status Value properties) those undergo during data exchange with Customs. The actions which suggest some workflow problem are marked in red.

Action	Status Type	Status Value
WP Put to queue→	EntityStatusType.ABIAppQUE	EntityStatusValue.ABIAppPutToQUE
WP ←Put to queue error	EntityStatusType.ABIAppQUE	EntityStatusValue.ABIAppPutToQUEError
WP ←Remove (if necessary)	EntityStatusType.ABIAppQUE	EntityStatusValue.ABIAppRemoveFromQUE
WP Transmit→	EntityStatusType.ABIAppQUE	EntityStatusValue.ABIAppSent
WT ←Get file	EntityStatusType.ABIAppQUE	EntityStatusValue.ABIAppIncoming
WT ←Get with error	EntityStatusType.ABIAppQUE	EntityStatusValue.ABIAppIncomingError
WT ←Rejected	EntityStatusType.ABIAppQUE	EntityStatusValue.ABIAppRejected
WT ←Accepted	EntityStatusType.ABIAppCustoms	EntityStatusValue.ABIAppCustomsAccepted

WP - In-Bond Update/Transfer Customs incoming (our outgoing) file.

WT - In-Bond Update/Transfer Customs outgoing (our incoming) file.

Initially the response from Customs should come to our WP file sent. It comes on WT file. If our file is accepted Customs sends In-Bond Status Notification (NS) file. You can also get In-Bond Status Notification as a Third Party (when In-Bond status is changed by another ABI participant).

d) Actions and Action Statuses.

Action in WP application.		Action Status returned by NS application.		Level
Code	Description	Code	Description	
"1"	Arrive entire in-bond at destination	"AD"	Arrived at destination	In-Bond
"2"	Arrive bill of lading at destination	"AD"	Arrived at destination	Bill
"3"	Arrive container/equipment at destination	"AD"	Arrived at destination	Container
"5"	Export entire in-bond from destination	"ED"	Exported from destination	In-Bond
"6"	Export bill of lading from destination port	"ED"	Exported from destination	Bill
"7"	Export container/equipment from destination port	"ED"	Exported from destination	Container

"A"	Transfer of in-bond liability for entire in-bond	-	-	In-Bond
"Z"	Diversioin request	-	-	In-Bond
	-	"DB"	Carrier bill deleted	Bill
	-	"DA"	Deleted arrival	In-Bond, Bill, Container
	-	"DE"	Deleted export	In-Bond, Bill, Container

[2] – Methods can be used instead of more general method `PutToQueueOneWay(string AppId, List<Parameter> parameters)` described in `SMS.Broker.ServiceContracts.IsmsABIManager`. Since it is used for In-Bond Update/Transfer only it has only one parameter.

`PutToQueueOneWay(long id)` - asynchronous
`PutToQueue(long id)` - synchronous

Parameters:

`id` - In-Bond document Id.

For example:

```
var mngr =
ClientContext.ServicesFactory.GetManager<SMS.Broker.ServiceContracts.Documents.
IInBondUpdateManager>();
mngr.PutToQueueOneWay(5L);
```