

Schema documentation for ivef0_2.xsd

6 july 2009

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Namespace: "http://www.ivef.org/XMLSchema/IVEF/0.2.0"


Schemas

Main schema ivef0_2.xsd

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
Properties	attribute form default: unqualified
	element form default: qualified
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Elements

Element MSG_IVEF

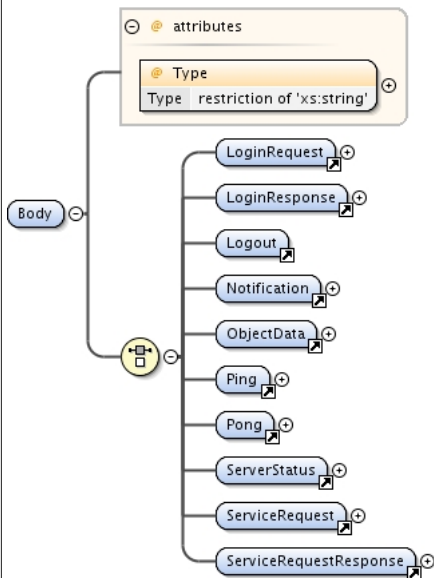
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
Annotations	Root MESSAGE
Diagram	 The diagram shows a root element 'MSG_IVEF' connected to a complex content model. This model consists of two child elements: 'Header' and 'Body', both of which are optional (indicated by a circle with a plus sign).
Properties	content: complex
Model	Header , Body
Children	Body, Header
Instance	<pre><MSG_IVEF> <Header MsgRefId=" " Version="0.2.0">{1,1}</Header> <Body Type="">{1,1}</Body> </MSG_IVEF></pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Element Header

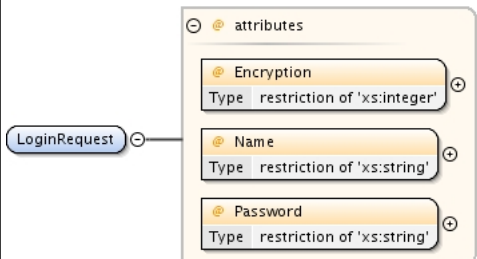
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	HEADER part of every message with version and uniqueness information				
Diagram					
Properties	content:	complex			
Used by	Element	MSG_IVEF			
Attributes	QName	Type	Fixed	Default	Use
	MsgRefId	restriction of xs:string			required
		Must be an Universally Unique Identifier for each message (TU-T Rec. X.667 ISO/IEC 9834-8.) Reply messages refer to this id to identify the message they are replying to. In its canonical form, a UUID consists of 32 hexadecimal digits, displayed in 5 groups separated by hyphens, in the form 8-4-4-4-12 for a total of 36 characters, enclosed by brackets. For example: {550e8400-e29b-41d4-a716-446655440000}			
	Version	xs:string	0.2.0		required
		Defines the version of the protocol used. Syntax is major.minor.patch patch releases fix only bugs, minor releases may add functionality but are compatible, major releases are not compatible			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element MSG_IVEF / Body

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
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Diagram					
Properties	content:	complex			
Model	LoginRequest LoginResponse Logout Notification ObjectData Ping Pong ServerStatus ServiceRequest ServiceRequestResponse				
Children	LoginRequest, LoginResponse, Logout, Notification, ObjectData, Ping, Pong, ServerStatus, ServiceRequest, ServiceRequestResponse				
Instance	<pre><Body Type=""> <LoginRequest Encryption="" Name="" Password="">{1,1}</LoginRequest> <LoginResponse Reason="" ResponseOn="" Result="">{1,1}</LoginResponse> <Logout>{1,1}</Logout> <Notification>{1,1}</Notification> <ObjectData Id="">{1,1}</ObjectData> <Ping TimeStamp="">{1,1}</Ping> <Pong ResponseOn="" SourceId="" TimeStamp="">{1,1}</Pong> <ServerStatus Details="" Status="">{1,1}</ServerStatus> <ServiceRequest>{1,1}</ServiceRequest> <ServiceRequestResponse Reason="" ResponseOn="" Result="">{1,1}</ServiceRequestResponse> </Body></pre>				
Attributes	QName	Type	Fixed	Default	Use
	Type	restriction of xs:string			required
	Type of message				
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element LoginRequest


Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA login message with details of the user				
Diagram					
Properties	content:	complex			
Used by	Element	MSG_IVEF/Body			
Attributes	QName	Type	Fixed	Default	Use
	Encryption	restriction of xs:integer			required

	QName	Type	Fixed	Default	Use
		1 = plain 2 = SHA-512			
	Name	restriction of xs:string			required
		Login name			
	Password	restriction of xs:string			required
		Password value			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element LoginResponse

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA login response with acceptance or deny with optional reason				
Diagram					
Properties	content:	complex			
Used by	Element	MSG_IVEF/Body			
Attributes	QName	Type	Fixed	Default	Use
	Reason	restriction of xs:string			optional
		String describing reason for declining, only used when result is "Declined"			
	ResponseOn	restriction of xs:string			required
		Corresponds to the original MsgRefId from the Login.xml message. Must be an Universally Unique Identifier (TU-T Rec. X.667 ISO/IEC 9834-8.)			
	Result	restriction of xs:integer			required
		1 = Accepted 2 = Declined			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element Logout

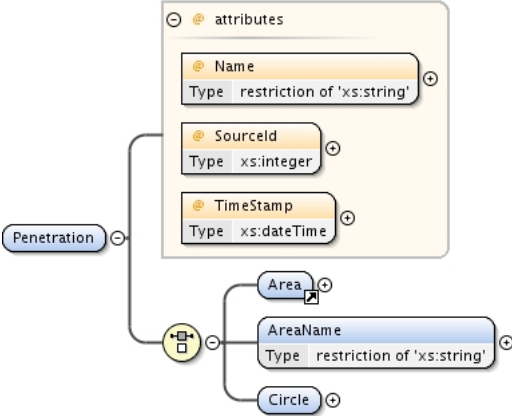
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0		
Annotations	DATA logout message, the server will drop the connection if logout is successfull		
Diagram			
Used by	Element	MSG_IVEF/Body	
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd		

Element Notification

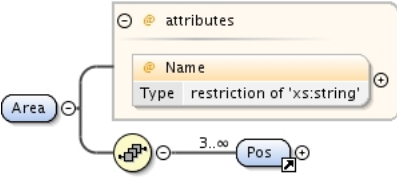
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA sent by the server regarding an area penetration, line crossing or text message				
Diagram					
Properties	content:	complex			
Used by	Element	MSG_IVEF/Body			

Model	Penetration* , Crossing* , Message*
Children	Crossing, Message, Penetration
Instance	<pre> <Notification> <Penetration Name="" SourceId="" TimeStamp="">{0,unbounded}</Penetration> <Crossing Name="" SourceId="" TimeStamp="">{0,unbounded}</Crossing> <Message Destination="" Origin="" Priority="" TimeStamp="">{0,unbounded}</Message> </Notification> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Element Penetration

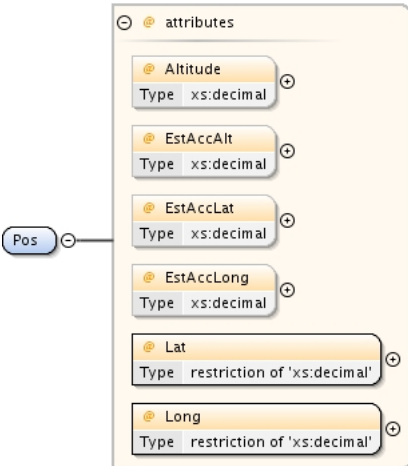
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA area penetration event sent to a user				
Diagram					
Properties	content:	complex			
Used by	Element	Notification			
Model	Area AreaName Circle				
Children	Area, AreaName, Circle				
Instance	<pre><Penetration Name="" SourceId="" TimeStamp=""> <Area Name="">{1,1}</Area> <AreaName>{1,1}</AreaName> <Circle Range="">{1,1}</Circle> </Penetration></pre>				
Attributes	QName	Type	Fixed	Default	Use
	Name	restriction of xs:string			required
		Name of the event			
	SourceId	xs:integer			required
		The unique identification of the node who initially created this message			
	TimeStamp	xs:dateTime			required
	Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.				
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element Area

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	Geographical location based on one or more polygons				
Diagram					
Properties	content:	complex			

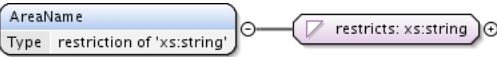
Used by	ElementsPenetration, ServiceRequest				
Model	Pos{3,unbounded}				
Children	Pos				
Instance	<pre><Area Name=""> <Pos Altitude="" EstAccAlt="" EstAccLat="" EstAccLong="" Lat="" Long="">{3,unbounded}</Pos> </Area></pre>				
Attributes	QName	Type	Fixed	Default	Use
	Name	restriction of xs:string			optional
		Name of the area			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element Pos

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0																																																																
Annotations	DATA position measurement of the geometrical centre of the object or location																																																																
Diagram																																																																	
Properties	content:	complex																																																															
Used by	Elements	Area, Crossing/Line, Penetration/Circle, TrackData, VoyageData/Waypoint																																																															
Attributes	<table><thead><tr><th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr></thead><tbody><tr><td>Altitude</td><td>xs:decimal</td><td></td><td></td><td>optional</td></tr><tr><td></td><td colspan="4">The altitude of the target above the WGS-84 ellipsoid in meters</td></tr><tr><td>EstAccAlt</td><td>xs:decimal</td><td></td><td></td><td>optional</td></tr><tr><td></td><td colspan="4">Estimated accuracy (i.e. standard deviation) of the calculated position of a target expressed in m</td></tr><tr><td>EstAccLat</td><td>xs:decimal</td><td></td><td></td><td>optional</td></tr><tr><td></td><td colspan="4">Estimated accuracy (i.e. standard deviation) of the calculated position of a target expressed in m</td></tr><tr><td>EstAccLong</td><td>xs:decimal</td><td></td><td></td><td>optional</td></tr><tr><td></td><td colspan="4">Estimated accuracy (i.e. standard deviation) of the calculated position of a target expressed in m</td></tr><tr><td>Lat</td><td>restriction of xs:decimal</td><td></td><td></td><td>required</td></tr><tr><td></td><td colspan="4">Latitude (WGS84) in degrees. (+/- 90 degrees; North = positive; South = negative) Examples: -90deg (south) = -90.0000000 0deg0min1sec (north) = 0.0000016 50deg50min (north) = 50.8333333</td></tr><tr><td>Long</td><td>restriction of xs:decimal</td><td></td><td></td><td>required</td></tr></tbody></table>	QName	Type	Fixed	Default	Use	Altitude	xs:decimal			optional		The altitude of the target above the WGS-84 ellipsoid in meters				EstAccAlt	xs:decimal			optional		Estimated accuracy (i.e. standard deviation) of the calculated position of a target expressed in m				EstAccLat	xs:decimal			optional		Estimated accuracy (i.e. standard deviation) of the calculated position of a target expressed in m				EstAccLong	xs:decimal			optional		Estimated accuracy (i.e. standard deviation) of the calculated position of a target expressed in m				Lat	restriction of xs:decimal			required		Latitude (WGS84) in degrees. (+/- 90 degrees; North = positive; South = negative) Examples: -90deg (south) = -90.0000000 0deg0min1sec (north) = 0.0000016 50deg50min (north) = 50.8333333				Long	restriction of xs:decimal			required				
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	QName	Type	Fixed	Default	Use
		Longitude (WGS84) in degrees. (+/- 180 degrees; East = positive; West = negative). Examples: -180deg (west) = -180.0000000 0deg0min1sec (east) = 0.0000016			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

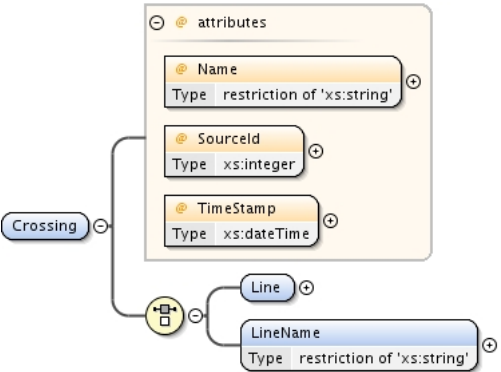
Element Penetration / AreaName

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0		
Diagram			
Type	restriction of xs:string		
Properties	content:	simple	
Facets	minLength	1	
	maxLength	42	
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd		

Element Penetration / Circle


Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Diagram					
Properties	content:	complex			
Model	Pos				
Children	Pos				
Instance	<pre><Circle Range=""> <Pos Altitude="" EstAccAlt="" EstAccLat="" EstAccLong="" Lat="" Long="">{1,1}</Pos> </Circle></pre>				
Attributes	QName	Type	Fixed	Default	Use
	Range	restriction of xs:integer			required
	Range of the circle in meter				
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element Crossing


Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA line crossing event sent to a user				
Diagram					

Properties	content: complex				
Used by	Element Notification				
Model	Line LineName				
Children	Line, LineName				
Instance	<pre><Crossing Name="" SourceId="" TimeStamp=""> <Line>{1,1}</Line> <LineName>{1,1}</LineName> </Crossing></pre>				
Attributes	QName	Type	Fixed	Default	Use
	Name	restriction of xs:string			required
		Name of the event			
	SourceId	xs:integer			required
		The unique identification of the node who initially created this message			
	TimeStamp	xs:dateTime			required
		Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element Crossing / Line

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
Diagram	
Properties	content: complex
Model	Pos{2,2}
Children	Pos
Instance	<pre><Line> <Pos Altitude="" EstAccAlt="" EstAccLat="" EstAccLong="" Lat="" Long="">{2,2}</Pos> </Line></pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Element Crossing / LineName

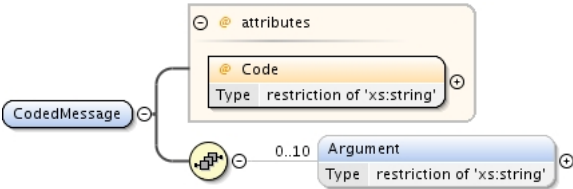
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0		
Diagram			
Type	restriction of xs:string		
Properties	content:	simple	
Facets	minLength	1	
	maxLength	42	
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd		

Element Message

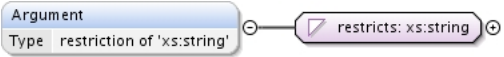
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA message sent from or to a user				

Diagram																																														
Properties	content: complex																																													
Used by	Element Notification																																													
Model	CodedMessage PlainMessage																																													
Children	CodedMessage, PlainMessage																																													
Instance	<pre><Message Destination="" Origin="" Priority="" TimeStamp=""> <CodedMessage Code="">{1,1}</CodedMessage> <PlainMessage Subject="" Text="">{1,1}</PlainMessage> </Message></pre>																																													
Attributes	<table><tr><th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr><tr><td>Destination</td><td>restriction of xs:string</td><td></td><td></td><td>optional</td></tr><tr><td></td><td colspan="4">Name of the destination, not available when broadcasting</td></tr><tr><td>Origin</td><td>restriction of xs:string</td><td></td><td></td><td>required</td></tr><tr><td></td><td colspan="4">Name of the sender</td></tr><tr><td>Priority</td><td>xs:integer</td><td></td><td></td><td>optional</td></tr><tr><td></td><td colspan="4">The priority of this message, 1 beeing the most urgent</td></tr><tr><td>TimeStamp</td><td>xs:dateTime</td><td></td><td></td><td>required</td></tr><tr><td></td><td colspan="4">Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.</td></tr></table>	QName	Type	Fixed	Default	Use	Destination	restriction of xs:string			optional		Name of the destination, not available when broadcasting				Origin	restriction of xs:string			required		Name of the sender				Priority	xs:integer			optional		The priority of this message, 1 beeing the most urgent				TimeStamp	xs:dateTime			required		Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.			
	QName	Type	Fixed	Default	Use																																									
	Destination	restriction of xs:string			optional																																									
		Name of the destination, not available when broadcasting																																												
	Origin	restriction of xs:string			required																																									
		Name of the sender																																												
	Priority	xs:integer			optional																																									
	The priority of this message, 1 beeing the most urgent																																													
TimeStamp	xs:dateTime			required																																										
	Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.																																													
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd																																													

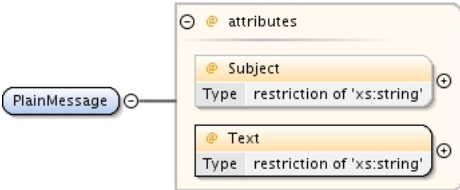
Element Message / CodedMessage

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	Message identified by a code and arguments, usefull for internationalization				
Diagram					
Properties	content:	complex			
Model	Argument{0,10}				
Children	Argument				
Instance	<pre><CodedMessage Code=""> <Argument>{0,10}</Argument> </CodedMessage></pre>				
Attributes	QName	Type	Fixed	Default	Use
	Code	restriction of xs:string			required
		Code of the message, meaning of the code and the need for additional parameters is left free to the end user.			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

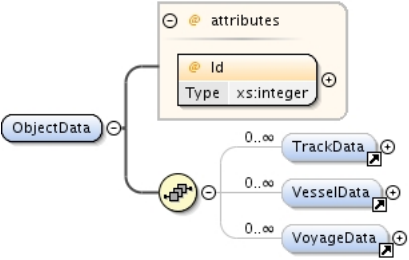
Element CodedMessage / Message / Argument

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0						
Annotations	Short description of the text						
Diagram							
Type	restriction of xs:string						
Properties	<table> <tr><td>content:</td><td>simple</td></tr> <tr><td>minOccurs:</td><td>0</td></tr> <tr><td>maxOccurs:</td><td>10</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	10
content:	simple						
minOccurs:	0						
maxOccurs:	10						
Facets	<table> <tr><td>minLength</td><td>1</td></tr> <tr><td>maxLength</td><td>1024</td></tr> </table>	minLength	1	maxLength	1024		
minLength	1						
maxLength	1024						
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd						

Element Message / PlainMessage

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	Free format text message				
Diagram					
Properties	content:	complex			
Attributes	QName	Type	Fixed	Default	Use
	Subject	restriction of xs:string			optional
		Short description of the text			
	Text	restriction of xs:string			required
		Actual text			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element ObjectData

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
Annotations	DATA regarding an object in the suppliers domain, contains at least 1 one of the sub elements (TrackData, VesselData, VoyageData)
Diagram	
Properties	content: complex
Used by	Element MSG_IVEF/Body
Model	TrackData*, VesselData*, VoyageData*
Children	TrackData, VesselData, VoyageData
Instance	<pre> <ObjectData Id=""> <TrackData COG="" EstAccCOG="" EstAccOrientation="" EstAccSOG="" Id="" Length="" NavStatus="" Orientat TrackData> <VesselData BlackListed="" Class="" Deleted="" Detained="" Id="" SourceId="" SourceName="" SourceType= VesselData> </pre>

	<pre><VoyageData Agent="" AirDraught="" ATA="" CargoDescr="" CargoType="" CargoWeight="" Company="" Crew="" VoyageData> </ObjectData></pre>				
Attributes	QName	Type	Fixed	Default	Use
	Id	xs:integer			required
		The unique identification of this object, typically identical to Id in the TrackData, but not required			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element TrackData

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0		
Annotations	DATA describing a position report of an object		
Diagram			
Properties	content:	complex	
Used by	Element	ObjectData	
Model	Pos+		
Children	Pos		
Instance	<pre><TrackData COG="" EstAccCOG="" EstAccOrientation="" EstAccSOG="" Id="" Length="" NavStatus="" Orientation="" <Pos Altitude="" EstAccAlt="" EstAccLat="" EstAccLong="" Lat="" Long="">{1,unbounded}</ Pos> </TrackData></pre>		

Attributes	QName	Type	Fixed	Default	Use
	COG	restriction of xs:decimal			required
		Course over ground in degrees. (0-360)			
	EstAccCOG	xs:decimal			optional
		Estimated accuracy (i.e. standard deviation) of the calculated value expressed in m			
	EstAccOrientation	xs:decimal			optional
		Estimated accuracy (i.e. standard deviation) of the calculated value expressed in m			
	EstAccSOG	xs:decimal			optional
		Estimated accuracy (i.e. standard deviation) of the calculated value expressed in m			
	Id	xs:integer			required
		The unique identification of this track. Valid from first message with TrackStatus!=Terminated to first message with TrackStatus=Terminated			
	Length	restriction of xs:decimal			optional
		Length of the target in meter			
	NavStatus	restriction of xs:integer			optional
		Navigation status of the target 0 = under way using engine 1 = at anchor 2 = not under command 3 = restricted manoeuvrability 4 = constrained by her draught 5 = moored 6 = aground 7 = engaged in fishing 8 = under way sailing 15 = undefined default			
	Orientation	restriction of xs:decimal			optional
		Orientation of the target in degrees			
	ROT	xs:decimal			optional
		Rate of turn in degrees per minute			
	SOG	restriction of xs:decimal			required
		Speed over ground in meters per second			
	SourceId	xs:integer			required
		The unique identification of the node who initially created this message			
	SourceName	restriction of xs:string			optional
		Identification of the originator of the data			
	TrackStatus	restriction of xs:integer			required
		1 = Updated, 2 = Coasted, 3 = Terminated			
	UpdateTime	xs:dateTime			required
		Date and time in UTC format (YYYY-MM-DDThh:mm:ss.sssZ) (subset of ISO 8601) this position was measured.			
	Width	restriction of xs:decimal			optional
	Width of the target in meter				
Schema location	file://home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element VesselData

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA regarding static elements of an object				
Diagram					
Properties	content:	complex			
Used by	Element	ObjectData			
Model	Construction{0,1} , Identifier{0,1} , Owner{0,1} , Propulsion* , TaggedItem*				
Children	Construction, Identifier, Owner, Propulsion, TaggedItem				
Instance	<pre><VesselData BlackListed="" Class="" Deleted="" Detained="" Id="" SourceId="" SourceName="" SourceType="" <Construction Constructor="" DeadWeight="" GrossWeight="" HullColor="" HullMaterial="" HullType="" Len <Construction> <Identifier Callsign="" IMO="" MMSI="" Name="" SatCom="" Telephone="">{0,1}</Identifier> <Owner Company="" CountryFlag="" CountryOwner="" HomePort="" Owner="" PortOfRegistry="">{0,1}</ <Owner> <Propulsion MainEngine="" Power="">{0,unbounded}</Propulsion> <TaggedItem Key="" Value="">{0,unbounded}</TaggedItem> </VesselData></pre>				
Attributes	QName	Type	Fixed	Default	Use
	BlackListed	xs:boolean			optional
	Vessel is blacklisted				
	Class	restriction of xs:integer			optional
	0 = Unknown 1 = Vessel 2 = Aids to Navigate				
	Deleted	xs:boolean			optional
	This VesselData is marked for deletion				
	Detained	xs:boolean			optional
	Vessel is detained				

QName	Type	Fixed	Default	Use
Id	restriction of xs:string			required
	The unique identification of this static data			
SourceId	xs:integer			required
	The unique identification of the node who initially created this message			
SourceName	restriction of xs:string			optional
	Identification of the originator of the data			
SourceType	restriction of xs:integer			required
	Source/originator type: 1 = AIS transponder 2 = VTS Plan Server 3 = Operator			
UpdateTime	xs:dateTime			optional
	Date and time in UTC format (YYYY-MM-DDThh:mm:ss.sssZ) (subset of ISO 8601) this data was compiled			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd			

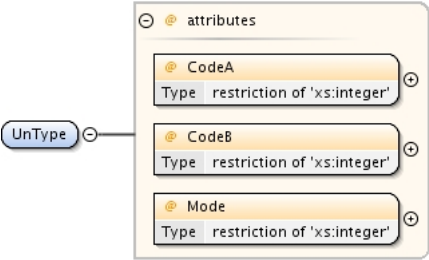
Element **VesselData** / Construction

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
Annotations	attributes of the object regarding the physical construction
Diagram	<pre> graph TD subgraph Attributes Constructor[Constructor Type: restriction of 'xs:string' Cardinality: 1] DeadWeight[DeadWeight Type: restriction of 'xs:decimal' Cardinality: 1] GrossWeight[GrossWeight Type: restriction of 'xs:decimal' Cardinality: 1] HullColor[HullColor Type: restriction of 'xs:string' Cardinality: 1] HullMaterial[HullMaterial Type: restriction of 'xs:string' Cardinality: 1] HullType[HullType Type: restriction of 'xs:integer' Cardinality: 1] Length[Length Type: restriction of 'xs:decimal' Cardinality: 1] LloydsShipType[LloydsShipType Type: xs:integer Cardinality: 1] MaxAirDraught[MaxAirDraught Type: restriction of 'xs:decimal' Cardinality: 1] MaxDraught[MaxDraught Type: restriction of 'xs:decimal' Cardinality: 1] MaxPersonsOnBoard[MaxPersonsOnBoard Type: restriction of 'xs:decimal' Cardinality: 1] MaxSpeed[MaxSpeed Type: restriction of 'xs:decimal' Cardinality: 1] NetWeight[NetWeight Type: restriction of 'xs:decimal' Cardinality: 1] TideBound[TideBound Type: xs:boolean Cardinality: 1] Width[Width Type: restriction of 'xs:decimal' Cardinality: 1] end Construction((Construction)) --- Attributes Attributes --- UnType((UnType)) </pre> <p>The diagram illustrates the construction of the VesselData element. It shows a list of attributes, each with its name, type, and cardinality. A 'Construction' label points to the list, and an 'UnType' label points to the end of the list.</p> <ul style="list-style-type: none"> Constructor: Type: restriction of 'xs:string', Cardinality: 1 DeadWeight: Type: restriction of 'xs:decimal', Cardinality: 1 GrossWeight: Type: restriction of 'xs:decimal', Cardinality: 1 HullColor: Type: restriction of 'xs:string', Cardinality: 1 HullMaterial: Type: restriction of 'xs:string', Cardinality: 1 HullType: Type: restriction of 'xs:integer', Cardinality: 1 Length: Type: restriction of 'xs:decimal', Cardinality: 1 LloydsShipType: Type: xs:integer, Cardinality: 1 MaxAirDraught: Type: restriction of 'xs:decimal', Cardinality: 1 MaxDraught: Type: restriction of 'xs:decimal', Cardinality: 1 MaxPersonsOnBoard: Type: restriction of 'xs:decimal', Cardinality: 1 MaxSpeed: Type: restriction of 'xs:decimal', Cardinality: 1 NetWeight: Type: restriction of 'xs:decimal', Cardinality: 1 TideBound: Type: xs:boolean, Cardinality: 1 Width: Type: restriction of 'xs:decimal', Cardinality: 1

Properties	content: complex				
	minOccurs: 0				
Model	UnType				
Children	UnType				
Instance	<Construction Constructor="" DeadWeight="" GrossWeight="" HullColor="" HullMaterial="" HullType="" Length=""> <UnType CodeA="" CodeB="" Mode="">{1,1}</UnType> </Construction>				
Attributes	QName	Type	Fixed	Default	Use
	Constructor	restriction of xs:string			optional
		Identification of the constructing shipyard			
	DeadWeight	restriction of xs:decimal			optional
		Dead weight in tons			
	GrossWeight	restriction of xs:decimal			optional
		Gross weight in tons			
	HullColor	restriction of xs:string			optional
		Color of Hull (in RGB hex)			
	HullMaterial	restriction of xs:string			optional
		Material used for Hull construction			
	HullType	restriction of xs:integer			optional
		Type of hull (1 = single, 2 = double, 3 = triple)			
	Length	restriction of xs:decimal			optional
		Length of the target in meter			
	LloydsShipType	xs:integer			optional
		Number indicating type of vessel			
	MaxAirDraught	restriction of xs:decimal			optional
		Maximum air draught of the object in meters			
	MaxDraught	restriction of xs:decimal			optional
		Maximum draught of the object in meters			
	MaxPersonsOnBoard	restriction of xs:decimal			optional
		The maximum number of persons on board of the object (crew, support, passengers, pilots)			
	MaxSpeed	restriction of xs:decimal			optional
		The maximum speed the object is able to sustain with normal draft and load			
	NetWeight	restriction of xs:decimal			optional
		Net weight in tons			
	TideBound	xs:boolean			optional
		Object is tide bound for current destination (deep water vessel indicator)			
	Width	restriction of xs:decimal			optional
		Width of the target in meter			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element Construction / VesselData / UnType

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
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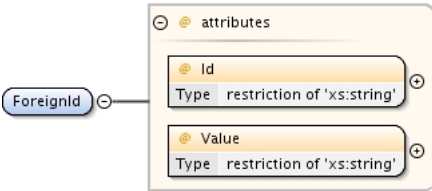
Annotations	Object type according to "CODES FOR TYPES OF MEANS OF TRANSPORT" Revision 2 (UNECE CEFACT Trade Facilitation Recommendation No. 28 edition 2007)				
Diagram					
Properties	content:	complex			
Attributes	QName	Type	Fixed	Default	Use
	CodeA	restriction of xs:integer			required
	CodeB	restriction of xs:integer			required
	Mode	restriction of xs:integer			required
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element VesselData / Identifier

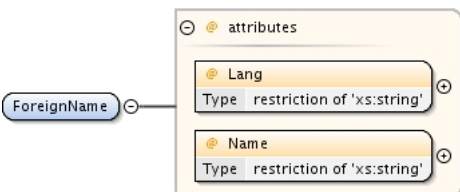
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0								
Annotations	(local) Identification of vessel								
Diagram									
Properties	<table><tr><td>content:</td><td>complex</td></tr><tr><td>minOccurs:</td><td>0</td></tr></table>					content:	complex	minOccurs:	0
content:	complex								
minOccurs:	0								
Model	ForeignId*, ForeignName*								
Children	ForeignId, ForeignName								
Instance	<pre><Identifier Callsign="" IMO="" MMSI="" Name="" SatCom="" Telephone=""> <ForeignId Id="" Value="">{0,unbounded}</ForeignId> <ForeignName Lang="" Name="">{0,unbounded}</ForeignName> </Identifier></pre>								
Attributes	QName	Type	Fixed	Default	Use				
	Callsign	restriction of xs:string			optional				
		Callsign of the target, in accordance with Article 19, Section III of the ITU Radio Regulations (RR)							
	IMO	xs:integer			optional				
		IMO number of the target							

	QName	Type	Fixed	Default	Use
	MMSI	xs:integer			optional
		MMSI number of the target			
	Name	restriction of xs:string			optional
		Name of the target			
	SatCom	xs:integer			optional
		SatCom number under which the target can be reached			
	Telephone	restriction of xs:string			optional
		Telephone number under which the target can be reached			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element ForeignId

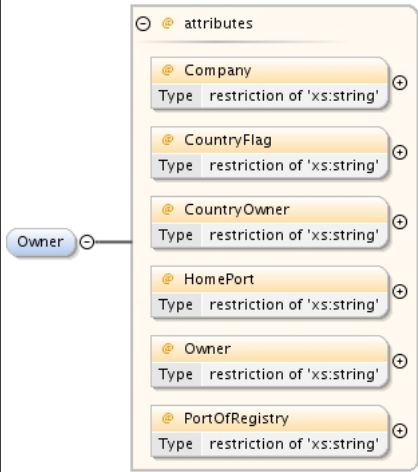
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	Other Id's for the track than the international standard Identifiers				
Diagram					
Properties	content:	complex			
Used by	Element	VesselData/Identifier			
Attributes	QName	Type	Fixed	Default	Use
	Id	restriction of xs:string			required
		Name of the Identifier			
	Value	restriction of xs:string			required
		Value of the identifier			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element ForeignName

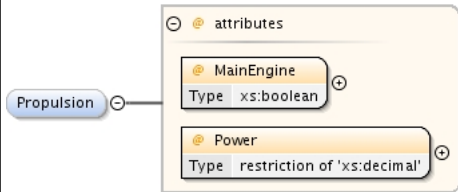
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	Other names for the track than the English name				
Diagram					
Properties	content:	complex			
Used by	Element	VesselData/Identifier			
Attributes	QName	Type	Fixed	Default	Use
	Lang	restriction of xs:string			required
		Language (ISO 3166-1-alpha2)			
	Name	restriction of xs:string			required
		Name in the foreign language			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element VesselData / Owner

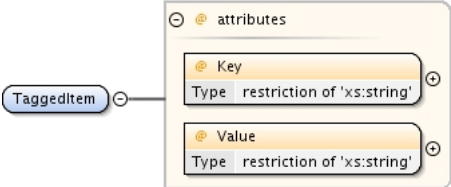
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	attributes of the object regarding the ownership				

Diagram					
Properties	content:	complex			
	minOccurs:	0			
Attributes	QName	Type	Fixed	Default	Use
	Company	restriction of xs:string			optional
	Identification of the company associated with the object				
	CountryFlag	restriction of xs:string			optional
	The country flag (ISO 3166-1-alpha2)				
	CountryOwner	restriction of xs:string			optional
	The country flag (ISO 3166-1-alpha2)				
	HomePort	restriction of xs:string			optional
	Home port of the target (UN/LOCODE)				
	Owner	restriction of xs:string			optional
	Identification of the owner of the object				
	PortOfRegistry	restriction of xs:string			optional
	Port Of Registry (UN/LOCODE)				
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element VesselData / Propulsion

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	attributes of the object regarding the propulsion				
Diagram					
Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	unbounded			
Attributes	QName	Type	Fixed	Default	Use
	MainEngine	xs:boolean			required
	Indicates whether this engine the main engine				
	Power	restriction of xs:decimal			required
	The power of this engine in HP				
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

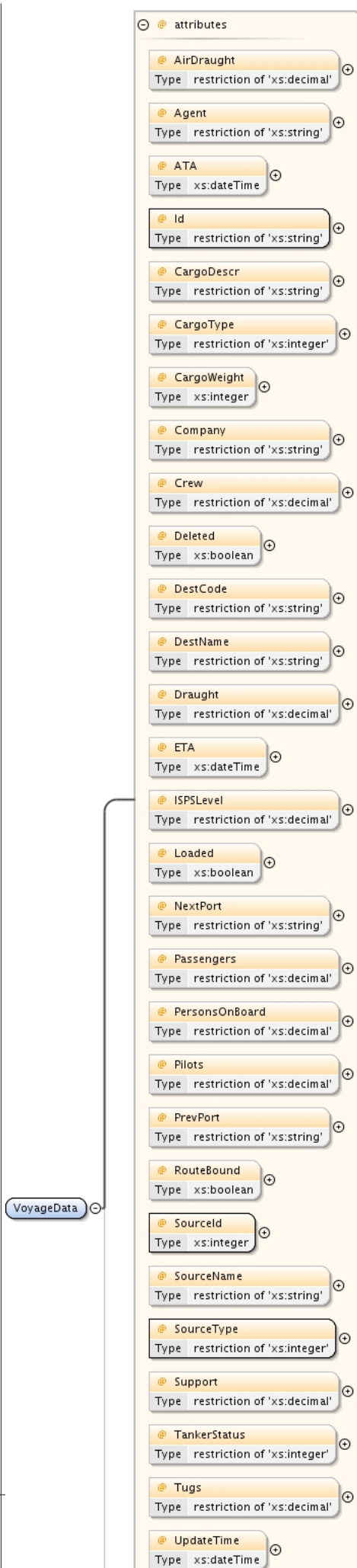
Element TaggedItem

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	Generic key/value pairs, can be used to pass information that is not (yet) in the standard, provided server and user agree upon interface				
Diagram					
Properties	content:	complex			
Used by	Elements	VesselData, VoyageData			
Attributes	QName	Type	Fixed	Default	Use
	Key	restriction of xs:string			required
		Key for the tagged item			
	Value	restriction of xs:string			required
		Value of the tagged item			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element VoyageData

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
Annotations	DATA regarding a movement of a vessel servers domain

Diagram



Properties	content: complex				
Used by	Element ObjectData				
Model	TaggedItem* , Waypoint*				
Children	TaggedItem, Waypoint				
Instance	<VoyageData Agent="" AirDraught="" ATA="" CargoDescr="" CargoType="" CargoWeight="" Company="" Crew="" Deleted="" DestCode="" DestName="" Draught="" ETA="" ISPSLevel="" Id="" Loaded=""> <TaggedItem Key="" Value="">{0,unbounded}</TaggedItem> <Waypoint ATA="" ETA="" LoCode="" Name="">{0,unbounded}</Waypoint> </VoyageData>				
Attributes	QName	Type	Fixed	Default	Use
	ATA	xs:dateTime			optional
		Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the Actual Time Of Arrival of the target at the destination			
	Agent	restriction of xs:string			optional
		Agent responsible for this voyage			
	AirDraught	restriction of xs:decimal			optional
		Actual air draught of the vessel in meters			
	CargoDescr	restriction of xs:string			optional
		Description of the cargo			
	CargoType	restriction of xs:integer			optional
		0 = All ships of this type 1 = Carrying DG, HS, or MP, IMO hazard or pollutant category A 2 = Carrying DG, HS, or MP, IMO hazard or pollutant category B 3 = Carrying DG, HS, or MP, IMO hazard or pollutant category C 4 = Carrying DG, HS, or MP, IMO hazard or pollutant category D 5 = Carrying DG, HS, or MP, IMO hazard or pollutant of unknown category			
	CargoWeight	xs:integer			optional
		Weight of the cargo in tons			
	Company	restriction of xs:string			optional
		Identification of the company associated with this objects voyage			
	Crew	restriction of xs:decimal			optional
		The number of crew on board of the object			
	Deleted	xs:boolean			optional
		This voyage is marked for deletion			
	DestCode	restriction of xs:string			optional
		Destination of the target (UN/LOCODE) optionally addended with local location code (e.g. BEANR0170100497 = Antwerp, HANSADOK 497)			
	DestName	restriction of xs:string			optional
		Destination name of the target e.g. local code for berth/lock/bridge/terminal			
	Draught	restriction of xs:decimal			optional
		Actual draught of the vessel in meters			
	ETA	xs:dateTime			optional
		Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the Expected Time Of Arrival of the target at the destination			
	ISPSLevel	restriction of xs:decimal			optional
		The ISPS level of the object (1 = normal, 2 = heightened, 3 = exceptional)			
	Id	restriction of xs:string			required
		The identification of this voyage			
	Loaded	xs:boolean			optional

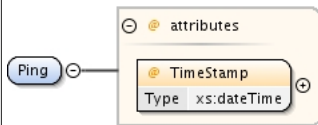
QName	Type	Fixed	Default	Use
	Loaded or unloaded with cargo			
NextPort	restriction of xs:string			optional
	Next port of the target (UN/LOCODE)			
Passengers	restriction of xs:decimal			optional
	The number of passengers on board of the object			
PersonsOnBoard	restriction of xs:decimal			optional
	The number of persons on board of the object, should equal the sum of crew, passengers and support personel if available			
Pilots	restriction of xs:decimal			optional
	The number of support pilots on board of the object			
PrevPort	restriction of xs:string			optional
	Previous port of the target (UN/LOCODE)			
RouteBound	xs:boolean			optional
	This object is bound to the route of this voyage			
SourceId	xs:integer			required
	The unique identification of the node who initially created this message			
SourceName	restriction of xs:string			optional
	Identification of the originator of this data			
SourceType	restriction of xs:integer			required
	Source/originator type: 1 = transponder, 2 = database, 3 = manual, 4 = other			
Support	restriction of xs:decimal			optional
	The number of support personel on board of the object			
TankerStatus	restriction of xs:integer			optional
	Describes the status of the tanker 0 = Non gas free 1 = Gas free 2 = Inert			
Tugs	restriction of xs:decimal			optional
	Number of supporting tugs			
UpdateTime	xs:dateTime			optional
	Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) this data was compiled			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd			

Element VoyageData / Waypoint

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
Annotations	Waypoint belonging to the route of this voyage

Diagram					
Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	unbounded			
Model	Pos{0,1}				
Children	Pos				
Instance	<pre><Waypoint ATA="" ETA="" LoCode="" Name=""> <Pos Altitude="" EstAccAlt="" EstAccLat="" EstAccLong="" Lat="" Long="">{0,1}</Pos> </Waypoint></pre>				
Attributes	QName	Type	Fixed	Default	Use
	ATA	xs:dateTime			optional
		Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Actual Time Of Arrival of the target.			
	ETA	xs:dateTime			optional
		Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Expected Time Of Arrival of the target.			
	LoCode	restriction of xs:string			optional
		Waypoint name in UN/LOCODE optionally addended with local location code (e.g. BEANR0170100497 = Antwerp, HANSADOK 497)			
	Name	restriction of xs:string			required
		Name of the waypoint			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element Ping

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA alive message				
Diagram					
Properties	content:	complex			
Used by	Element	MSG_IVEF/Body			
Attributes	QName	Type	Fixed	Default	Use
	TimeStamp	xs:dateTime			required
		Date and time in (subset ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element Pong

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA alive response				

Diagram					
Properties	content:	complex			
Used by	Element	MSG_IVEF/Body			
Attributes	QName	Type	Fixed	Default	Use
	ResponseOn	restriction of xs:string			required
		Corresponds to the original MsgRefId from the Ping.xml message. Must be an Universally Unique Identifier (TU-T Rec. X.667 ISO/IEC 9834-8.)			
	SourceId	xs:integer			required
		The identification of the node who created this message			
	TimeStamp	xs:dateTime			required
		Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element ServerStatus

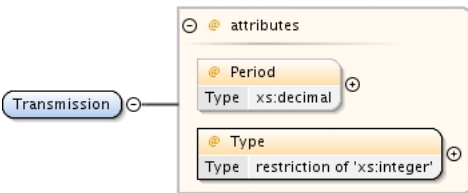
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA describing the status of the server (full/available)				
Diagram					
Properties	content:	complex			
Used by	Element	MSG_IVEF/Body			
Attributes	QName	Type	Fixed	Default	Use
	Details	restriction of xs:string			optional
		Details of status			
	Status	xs:boolean			required
		Status of the server			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element ServiceRequest

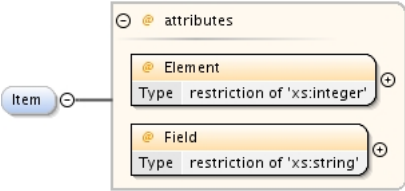
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA describing the service a user requests				
Diagram					
Properties	content:	complex			

Used by	Element MSG_IVEF/Body
Model	Area* , Transmission , Item* , Notifications , Object*
Children	Area, Item, Notifications, Object, Transmission
Instance	<pre> <ServiceRequest> <Area Name="">{0,unbounded}</Area> <Transmission Period="" Type="">{1,1}</Transmission> <Item Element="" Field="">{0,unbounded}</Item> <Notifications Crossing="" Messages="">{1,1}</Notifications> <Object FilterName="">{0,unbounded}</Object> </ServiceRequest> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Element ServiceRequest / Transmission

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Diagram					
Properties	content:	complex			
Attributes	QName	Type	Fixed	Default	Use
	Period	xs:decimal			optional
		Specifies the time between two periodic updates in seconds, for type 2 (seconds) and 3 (minutes)			
	Type	restriction of xs:integer			required
		Type of transmission, possible values are: 1 = single occurrence 2 = periodic (predicted, seconds domain) 3 = down sampled (not predicted, minute domain) 4 = synchronous 5 = on change			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element ServiceRequest / Item

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Diagram					
Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	unbounded			
Attributes	QName	Type	Fixed	Default	Use
	Element	restriction of xs:integer			required
		Describes requested Object data element, possible values: 1 = TrackData 2 = VesselData 3 = VoyageData			
	Field	restriction of xs:string			required
		Selected field. Can be 'all' or one of the items of object data TrackData, VesselData or VoyageData			

Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd
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Element ServiceRequest / Notifications

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Diagram					
Properties	content:	complex			
Attributes	QName	Type	Fixed	Default	Use
	Crossing	xs:boolean			optional
	Messages	xs:boolean			optional
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element ServiceRequest / Object

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Diagram					
Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	unbounded			
Attributes	QName	Type	Fixed	Default	Use
	FilterName	restriction of xs:string			required
	Name of the filter. The filter can be a predefined selector of the server. One of the predefined selectors will be 'all', others can be defined here in the future				
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Element ServiceRequestResponse

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA detailing the suppliers response to the users service request				
Diagram					
Properties	content:	complex			
Used by	Element	MSG_IVEF/Body			
Attributes	QName	Type	Fixed	Default	Use
	Reason	restriction of xs:string			optional
	String describing reason for declining, only used when result is "Declined"				
Attributes	ResponseOn	restriction of xs:string			required

	QName	Type	Fixed	Default	Use
		Corresponds to the original MsgRefId from the ServiceRequest message. Must be an Universally Unique Identifier (TU-T Rec. X.667 ISO/IEC 9834-8.)			
	Result	restriction of xs:integer			required
		1 = Accepted 2 = Declined			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd				

Namespace: ""

Attributes

Attribute Header / @MsgRefId

Namespace	No namespace		
Annotations	Must be an Universally Unique Identifier for each message (TU-T Rec. X.667 ISO/IEC 9834-8.) Reply messages refer to this id to identify the message they are replying to. In its canonical form, a UUID consists of 32 hexadecimal digits, displayed in 5 groups separated by hyphens, in the form 8-4-4-4-12 for a total of 36 characters, enclosed by brackets. For example: {550e8400-e29b-41d4-a716-446655440000}		
Type	restriction of xs:string		
Properties	use:	required	
Facets	minLength	36	
	maxLength	42	
Used by	Element	Header	
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd		

Attribute Header / @Version

Namespace	No namespace		
Annotations	Defines the version of the protocol used. Syntax is major.minor.patch patch releases fix only bugs, minor releases may add functionality but are compatible, major releases are not compatible		
Type	xs:string		
Properties	use:	required	
	fixed:	0.2.0	
Used by	Element	Header	
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd		

Attribute LoginRequest / @Encryption

Namespace	No namespace	
Annotations	1 = plain 2 = SHA-512	
Type	restriction of xs:integer	
Properties	use:	required
Facets	enumeration	1
	enumeration	2
Used by	Element	LoginRequest
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute LoginRequest / @Name

Namespace	No namespace				
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Annotations	Login name
Type	restriction of xs:string
Properties	use: required
Facets	maxLength 256
Used by	Element LoginRequest
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute LoginRequest / @Password

Namespace	No namespace
Annotations	Password value
Type	restriction of xs:string
Properties	use: required
Facets	maxLength 256
Used by	Element LoginRequest
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute LoginResponse / @Reason

Namespace	No namespace
Annotations	String describing reason for declining, only used when result is "Declined"
Type	restriction of xs:string
Properties	use: optional
Facets	maxLength 256
Used by	Element LoginResponse
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute LoginResponse / @ResponseOn

Namespace	No namespace
Annotations	Corresponds to the original MsgRefId from the Login.xml message. Must be an Universally Unique Identifier (TU-T Rec. X.667 ISO/IEC 9834-8.)
Type	restriction of xs:string
Properties	use: required
Facets	minLength 36 maxLength 42
Used by	Element LoginResponse
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute LoginResponse / @Result

Namespace	No namespace
Annotations	1 = Accepted 2 = Declined
Type	restriction of xs:integer
Properties	use: required
Facets	enumeration 1 enumeration 2
Used by	Element LoginResponse
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Pos / @Altitude

Namespace	No namespace
Annotations	The altitude of the target above the WGS-84 ellipsoid in meters
Type	xs:decimal
Properties	use: optional
Used by	Element Pos
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Pos / @EstAccAlt

Namespace	No namespace
Annotations	Estimated accuracy (i.e. standard deviation) of the calculated position of a target expressed in m
Type	xs:decimal
Properties	use: optional
Used by	Element Pos
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Pos / @EstAccLat

Namespace	No namespace
Annotations	Estimated accuracy (i.e. standard deviation) of the calculated position of a target expressed in m
Type	xs:decimal
Properties	use: optional
Used by	Element Pos
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Pos / @EstAccLong

Namespace	No namespace
Annotations	Estimated accuracy (i.e. standard deviation) of the calculated position of a target expressed in m
Type	xs:decimal
Properties	use: optional
Used by	Element Pos
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Pos / @Lat

Namespace	No namespace
Annotations	Latitude (WGS84) in degrees. (+/- 90 degrees; North = positive; South = negative) Examples: -90deg (south) = -90.0000000 0deg0min1sec (north) = 0.0000016 50deg50min (north) = 50.8333333
Type	restriction of xs:decimal
Properties	use: required
Facets	fractionDigits 5
	maxInclusive +90.00000

	minInclusive	-90.00000
Used by	Element	Pos
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Pos / @Long

Namespace	No namespace	
Annotations	Longitude (WGS84) in degrees. (+/- 180 degrees; East = positive; West = negative). Examples: -180deg (west) = -180.0000000 0deg0min1sec (east) = 0.0000016	
Type	restriction of xs:decimal	
Properties	use:	required
Facets	fractionDigits	5
	maxInclusive	+180.00000
	minExclusive	-180.00000
Used by	Element	Pos
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Area / @Name

Namespace	No namespace	
Annotations	Name of the area	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	42
Used by	Element	Area
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Circle / Penetration / @Range

Namespace	No namespace	
Annotations	Range of the circle in meter	
Type	restriction of xs:integer	
Properties	use:	required
Facets	minExclusive	0
Used by	Element	Penetration/Circle
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Penetration / @Name

Namespace	No namespace	
Annotations	Name of the event	
Type	restriction of xs:string	
Properties	use:	required
Facets	minLength	1
	maxLength	42
Used by	Element	Penetration
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Penetration / @SourceId

Namespace	No namespace	
Annotations	The unique identification of the node who initially created this message	
Type	xs:integer	
Properties	use:	required
Used by	Element	Penetration
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Penetration / @TimeStamp

Namespace	No namespace	
Annotations	Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.	
Type	xs:dateTime	
Properties	use:	required
Used by	Element	Penetration
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Crossing / @Name

Namespace	No namespace	
Annotations	Name of the event	
Type	restriction of xs:string	
Properties	use:	required
Facets	minLength	1
	maxLength	42
Used by	Element	Crossing
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Crossing / @SourceId

Namespace	No namespace	
Annotations	The unique identification of the node who initially created this message	
Type	xs:integer	
Properties	use:	required
Used by	Element	Crossing
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Crossing / @TimeStamp

Namespace	No namespace	
Annotations	Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.	
Type	xs:dateTime	
Properties	use:	required
Used by	Element	Crossing
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute CodedMessage / Message / @Code

Namespace	No namespace	
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Annotations	Code of the message, meaning of the code and the need for additional parameters is left free to the end user.	
Type	restriction of xs:string	
Properties	use:	required
Facets	minLength	1
	maxLength	32
Used by	Element	Message/CodedMessage
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute PlainMessage / Message / @Subject

Namespace	No namespace	
Annotations	Short description of the text	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	1024
Used by	Element	Message/PlainMessage
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute PlainMessage / Message / @Text

Namespace	No namespace	
Annotations	Actual text	
Type	restriction of xs:string	
Properties	use:	required
Facets	minLength	1
	maxLength	1024
Used by	Element	Message/PlainMessage
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Message / @Destination

Namespace	No namespace	
Annotations	Name of the destination, not available when broadcasting	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	42
Used by	Element	Message
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Message / @Origin

Namespace	No namespace	
Annotations	Name of the sender	
Type	restriction of xs:string	
Properties	use:	required
Facets	minLength	1
	maxLength	42

Used by	Element	Message
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Message / @Priority

Namespace	No namespace	
Annotations	The priority of this message, 1 being the most urgent	
Type	xs:integer	
Properties	use:	optional
Used by	Element	Message
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Message / @TimeStamp

Namespace	No namespace	
Annotations	Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.	
Type	xs:dateTime	
Properties	use:	required
Used by	Element	Message
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute TrackData / @COG

Namespace	No namespace	
Annotations	Course over ground in degrees. (0-360)	
Type	restriction of xs:decimal	
Properties	use:	required
Facets	fractionDigits	1
	maxInclusive	360
	minInclusive	0
Used by	Element	TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute TrackData / @EstAccSOG

Namespace	No namespace	
Annotations	Estimated accuracy (i.e. standard deviation) of the calculated value expressed in m	
Type	xs:decimal	
Properties	use:	optional
Used by	Element	TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute TrackData / @EstAccCOG

Namespace	No namespace	
Annotations	Estimated accuracy (i.e. standard deviation) of the calculated value expressed in m	
Type	xs:decimal	
Properties	use:	optional

Used by	Element TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute TrackData / @EstAccOrientation

Namespace	No namespace
Annotations	Estimated accuracy (i.e. standard deviation) of the calculated value expressed in m
Type	xs:decimal
Properties	use: optional
Used by	Element TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute TrackData / @Id

Namespace	No namespace
Annotations	The unique identification of this track. Valid from first message with TrackStatus!=Terminated to first message with TrackStatus=Terminated
Type	xs:integer
Properties	use: required
Used by	Element TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute TrackData / @Length

Namespace	No namespace
Annotations	Length of the target in meter
Type	restriction of xs:decimal
Properties	use: optional
Facets	minExclusive 0
Used by	Element TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute TrackData / @NavStatus

Namespace	No namespace
Annotations	Navigation status of the target 0 = under way using engine 1 = at anchor 2 = not under command 3 = restricted manoeuvrability 4 = constrained by her draught 5 = moored 6 = aground 7 = engaged in fishing 8 = under way sailing 15 = undefined default
Type	restriction of xs:integer
Properties	use: optional
Facets	enumeration 0
	enumeration 1
	enumeration 2
	enumeration 3
	enumeration 4
	enumeration 5

	enumeration	6
	enumeration	7
	enumeration	8
	enumeration	9
	enumeration	15
Used by	Element	TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute TrackData / @Orientation

Namespace	No namespace	
Annotations	Orientation of the target in degrees	
Type	restriction of xs:decimal	
Properties	use:	optional
Facets	maxInclusive	360.0
	minInclusive	0.0
Used by	Element	TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute TrackData / @ROT

Namespace	No namespace	
Annotations	Rate of turn in degrees per minute	
Type	xs:decimal	
Properties	use:	optional
Used by	Element	TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute TrackData / @SOG

Namespace	No namespace	
Annotations	Speed over ground in meters per second	
Type	restriction of xs:decimal	
Properties	use:	required
Facets	fractionDigits	1
	minInclusive	0
Used by	Element	TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute TrackData / @SourceId

Namespace	No namespace	
Annotations	The unique identification of the node who initially created this message	
Type	xs:integer	
Properties	use:	required
Used by	Element	TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute TrackData / @SourceName

Namespace	No namespace	
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Annotations	Identification of the originator of the data	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	42
Used by	Element	TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute TrackData / @UpdateTime

Namespace	No namespace	
Annotations	Date and time in UTC format (YYYY-MM-DDThh:mm:ss.sssZ) (subset of ISO 8601) this position was measured.	
Type	xs:dateTime	
Properties	use:	required
Used by	Element	TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute TrackData / @TrackStatus

Namespace	No namespace	
Annotations	1 = Updated, 2 = Coasted, 3 = Terminated	
Type	restriction of xs:integer	
Properties	use:	required
Facets	enumeration	1
	enumeration	2
	enumeration	3
Used by	Element	TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute TrackData / @Width

Namespace	No namespace	
Annotations	Width of the target in meter	
Type	restriction of xs:decimal	
Properties	use:	optional
Facets	minExclusive	0
Used by	Element	TrackData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute UnType / Construction / VesselData / @CodeA

Namespace	No namespace	
Type	restriction of xs:integer	
Properties	use:	required
Facets	maxInclusive	138
	minInclusive	0
Used by	Element	VesselData/Construction/UnType

Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd
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Attribute UnType / Construction / VesselData / @CodeB

Namespace	No namespace	
Type	restriction of xs:integer	
Properties	use:	required
Facets	maxInclusive	9
	minInclusive	0
Used by	Element	VesselData/Construction/UnType
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute UnType / Construction / VesselData / @Mode

Namespace	No namespace	
Type	restriction of xs:integer	
Properties	use:	required
Facets	enumeration	1
	enumeration	2
	enumeration	3
	enumeration	6
	enumeration	7
	enumeration	8
Used by	Element	VesselData/Construction/UnType
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Construction / VesselData / @Constructor

Namespace	No namespace	
Annotations	Identification of the constructing shipyard	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	42
Used by	Element	VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Construction / VesselData / @DeadWeight

Namespace	No namespace	
Annotations	Dead weight in tons	
Type	restriction of xs:decimal	
Properties	use:	optional
Facets	minExclusive	0
Used by	Element	VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Construction / VesselData / @GrossWeight

Namespace	No namespace	
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Annotations	Gross weight in tons	
Type	restriction of xs:decimal	
Properties	use:	optional
Facets	minExclusive	0
Used by	Element	VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Construction / VesselData / @HullColor

Namespace	No namespace	
Annotations	Color of Hull (in RGB hex)	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	6
	maxLength	6
Used by	Element	VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Construction / VesselData / @HullMaterial

Namespace	No namespace	
Annotations	Material used for Hull construction	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	42
Used by	Element	VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Construction / VesselData / @HullType

Namespace	No namespace	
Annotations	Type of hull (1 = single, 2 = double, 3 = triple)	
Type	restriction of xs:integer	
Properties	use:	optional
Facets	enumeration	1
	enumeration	2
	enumeration	3
Used by	Element	VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Construction / VesselData / @Length

Namespace	No namespace	
Annotations	Length of the target in meter	
Type	restriction of xs:decimal	
Properties	use:	optional
Facets	minExclusive	0
Used by	Element	VesselData/Construction

Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd
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Attribute Construction / VesselData / @LloydsShipType

Namespace	No namespace
Annotations	Number indicating type of vessel
Type	xs:integer
Properties	use: optional
Used by	Element VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Construction / VesselData / @MaxAirDraught

Namespace	No namespace
Annotations	Maximum air draught of the object in meters
Type	restriction of xs:decimal
Properties	use: optional
Facets	fractionDigits 1
	minExclusive 0
Used by	Element VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Construction / VesselData / @MaxDraught

Namespace	No namespace
Annotations	Maximum draught of the object in meters
Type	restriction of xs:decimal
Properties	use: optional
Facets	fractionDigits 1
	minExclusive 0
Used by	Element VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Construction / VesselData / @MaxPersonsOnBoard

Namespace	No namespace
Annotations	The maximum number of persons on board of the object (crew, support, passengers, pilots)
Type	restriction of xs:decimal
Properties	use: optional
Facets	minExclusive 0
Used by	Element VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Construction / VesselData / @MaxSpeed

Namespace	No namespace
Annotations	The maximum speed the object is able to sustain with normal draft and load
Type	restriction of xs:decimal
Properties	use: optional
Facets	minExclusive 0

Used by	Element VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Construction / VesselData / @NetWeight

Namespace	No namespace
Annotations	Net weight in tons
Type	restriction of xs:decimal
Properties	use: optional
Facets	minExclusive 0
Used by	Element VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Construction / VesselData / @TideBound

Namespace	No namespace
Annotations	Object is tide bound for current destination (deep water vessel indicator)
Type	xs:boolean
Properties	use: optional
Used by	Element VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Construction / VesselData / @Width

Namespace	No namespace
Annotations	width of the target in meter
Type	restriction of xs:decimal
Properties	use: optional
Facets	minExclusive 0
Used by	Element VesselData/Construction
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute ForeignId / @Id

Namespace	No namespace
Annotations	Name of the Identifier
Type	restriction of xs:string
Properties	use: required
Facets	minLength 1
	maxLength 42
Used by	Element ForeignId
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute ForeignId / @Value

Namespace	No namespace
Annotations	Value of the identifier
Type	restriction of xs:string
Properties	use: required
Facets	minLength 1

	maxLength	42
Used by	Element	ForeignId
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute ForeignName / @Lang

Namespace	No namespace	
Annotations	Language (ISO 3166-1-alpha2)	
Type	restriction of xs:string	
Properties	use:	required
Facets	minLength	2
	maxLength	2
Used by	Element	ForeignName
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute ForeignName / @Name

Namespace	No namespace	
Annotations	Name in the foreign language	
Type	restriction of xs:string	
Properties	use:	required
Facets	minLength	1
	maxLength	42
Used by	Element	ForeignName
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Identifier / VesselData / @Callsign

Namespace	No namespace	
Annotations	Callsign of the target, in accordance with Article 19, Section III of the ITU Radio Regulations (RR)	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	0
	maxLength	9
Used by	Element	VesselData/Identifier
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Identifier / VesselData / @IMO

Namespace	No namespace	
Annotations	IMO number of the target	
Type	xs:integer	
Properties	use:	optional
Used by	Element	VesselData/Identifier
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Identifier / VesselData / @Name

Namespace	No namespace	
Annotations	Name of the target	

Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	42
Used by	Element	VesselData/Identifier
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Identifier / VesselData / @MMSI

Namespace	No namespace	
Annotations	MMSI number of the target	
Type	xs:integer	
Properties	use:	optional
Used by	Element	VesselData/Identifier
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Identifier / VesselData / @SatCom

Namespace	No namespace	
Annotations	SatCom number under which the target can be reached	
Type	xs:integer	
Properties	use:	optional
Used by	Element	VesselData/Identifier
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Identifier / VesselData / @Telephone

Namespace	No namespace	
Annotations	Telephone number under which the target can be reached	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	42
Used by	Element	VesselData/Identifier
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Owner / VesselData / @Company

Namespace	No namespace	
Annotations	Identification of the company associated with the object	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	42
Used by	Element	VesselData/Owner
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Owner / VesselData / @CountryFlag

Namespace	No namespace	
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Annotations	The country flag (ISO 3166-1-alpha2)	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	2
	maxLength	2
Used by	Element	VesselData/Owner
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Owner / VesselData / @CountryOwner

Namespace	No namespace	
Annotations	The country flag (ISO 3166-1-alpha2)	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	2
	maxLength	2
Used by	Element	VesselData/Owner
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Owner / VesselData / @HomePort

Namespace	No namespace	
Annotations	Home port of the target (UN/LOCODE)	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	5
	maxLength	5
Used by	Element	VesselData/Owner
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Owner / VesselData / @Owner

Namespace	No namespace	
Annotations	Identification of the owner of the object	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	42
Used by	Element	VesselData/Owner
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Owner / VesselData / @PortOfRegistry

Namespace	No namespace	
Annotations	Port Of Registry (UN/LOCODE)	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	5
	maxLength	5

Used by	Element VesselData/Owner
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Propulsion / VesselData / @MainEngine

Namespace	No namespace
Annotations	Indicates whether this engine the main engine
Type	xs:boolean
Properties	use: required
Used by	Element VesselData/Propulsion
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Propulsion / VesselData / @Power

Namespace	No namespace
Annotations	The power of this engine in HP
Type	restriction of xs:decimal
Properties	use: required
Facets	minExclusive 0
Used by	Element VesselData/Propulsion
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute TaggedItem / @Key

Namespace	No namespace
Annotations	Key for the tagged item
Type	restriction of xs:string
Properties	use: required
Facets	minLength 1
	maxLength 42
Used by	Element TaggedItem
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute TaggedItem / @Value

Namespace	No namespace
Annotations	Value of the tagged item
Type	restriction of xs:string
Properties	use: required
Facets	minLength 1
	maxLength 42
Used by	Element TaggedItem
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VesselData / @Class

Namespace	No namespace
Annotations	0 = Unknown 1 = Vessel 2 = Aids to Navigate
Type	restriction of xs:integer
Properties	use: optional

Facets	enumeration	0
	enumeration	1
	enumeration	2
Used by	Element	VesselData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VesselData / @Deleted

Namespace	No namespace	
Annotations	This VesselData is marked for deletion	
Type	xs:boolean	
Properties	use:	optional
Used by	Element	VesselData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VesselData / @Detained

Namespace	No namespace	
Annotations	Vessel is detained	
Type	xs:boolean	
Properties	use:	optional
Used by	Element	VesselData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VesselData / @BlackListed

Namespace	No namespace	
Annotations	Vessel is blacklisted	
Type	xs:boolean	
Properties	use:	optional
Used by	Element	VesselData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VesselData / @Id

Namespace	No namespace	
Annotations	The unique identification of this static data	
Type	restriction of xs:string	
Properties	use:	required
Facets	maxLength	20
Used by	Element	VesselData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VesselData / @SourceId

Namespace	No namespace	
Annotations	The unique identification of the node who initially created this message	
Type	xs:integer	
Properties	use:	required
Used by	Element	VesselData

Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd
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Attribute VesselData / @SourceName

Namespace	No namespace	
Annotations	Identification of the originator of the data	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	42
Used by	Element	VesselData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VesselData / @SourceType

Namespace	No namespace	
Annotations	Source/originator type: 1 = AIS transponder 2 = VTS Plan Server 3 = Operator	
Type	restriction of xs:integer	
Properties	use:	required
Facets	enumeration	1
	enumeration	2
	enumeration	3
Used by	Element	VesselData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VesselData / @UpdateTime

Namespace	No namespace	
Annotations	Date and time in UTC format (YYYY-MM-DDThh:mm:ss.sssZ) (subset of ISO 8601) this data was compiled	
Type	xs:dateTime	
Properties	use:	optional
Used by	Element	VesselData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Waypoint / VoyageData / @ATA

Namespace	No namespace	
Annotations	Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Actual Time Of Arrival of the target.	
Type	xs:dateTime	
Properties	use:	optional
Used by	Element	VoyageData/Waypoint
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Waypoint / VoyageData / @ETA

Namespace	No namespace	
Annotations	Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Expected Time Of Arrival of the target.	
Type	xs:dateTime	
Properties	use:	optional

Used by	Element VoyageData/Waypoint
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute waypoint / VoyageData / @LoCode

Namespace	No namespace
Annotations	Waypoint name in UN/LOCODE optionally addended with local location code (e.g. BEANR0170100497 = Antwerp, HANSADOK 497)
Type	restriction of xs:string
Properties	use: optional
Facets	minLength 5
	maxLength 15
Used by	Element VoyageData/Waypoint
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute waypoint / VoyageData / @Name

Namespace	No namespace
Annotations	Name of the waypoint
Type	restriction of xs:string
Properties	use: required
Facets	minLength 1
	maxLength 42
Used by	Element VoyageData/Waypoint
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @AirDraught

Namespace	No namespace
Annotations	Actual air draught of the vessel in meters
Type	restriction of xs:decimal
Properties	use: optional
Facets	fractionDigits 1
	minExclusive 0
Used by	Element VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @Agent

Namespace	No namespace
Annotations	Agent responsible for this voyage
Type	restriction of xs:string
Properties	use: optional
Facets	minLength 1
	maxLength 42
Used by	Element VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @ATA

Namespace	No namespace
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Annotations	Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the Actual Time Of Arrival of the target at the destination	
Type	xs:dateTime	
Properties	use:	optional
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @Id

Namespace	No namespace	
Annotations	The identification of this voyage	
Type	restriction of xs:string	
Properties	use:	required
Facets	maxLength	20
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @CargoDescr

Namespace	No namespace	
Annotations	Description of the cargo	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	42
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @CargoType

Namespace	No namespace	
Annotations	0 = All ships of this type 1 = Carrying DG, HS, or MP, IMO hazard or pollutant category A 2 = Carrying DG, HS, or MP, IMO hazard or pollutant category B 3 = Carrying DG, HS, or MP, IMO hazard or pollutant category C 4 = Carrying DG, HS, or MP, IMO hazard or pollutant category D 5 = Carrying DG, HS, or MP, IMO hazard or pollutant of unknown category	
Type	restriction of xs:integer	
Properties	use:	optional
Facets	enumeration	0
	enumeration	1
	enumeration	2
	enumeration	3
	enumeration	4
	enumeration	5
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @CargoWeight

Namespace	No namespace	
Annotations	Weight of the cargo in tons	
Type	xs:integer	

Properties	use: optional
Used by	Element VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @Company

Namespace	No namespace
Annotations	Identification of the company associated with this objects voyage
Type	restriction of xs:string
Properties	use: optional
Facets	minLength 1
	maxLength 42
Used by	Element VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @Crew

Namespace	No namespace
Annotations	The number of crew on board of the object
Type	restriction of xs:decimal
Properties	use: optional
Facets	minExclusive 0
Used by	Element VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @Deleted

Namespace	No namespace
Annotations	This voyage is marked for deletion
Type	xs:boolean
Properties	use: optional
Used by	Element VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @DestCode

Namespace	No namespace
Annotations	Destination of the target (UN/LOCODE) optionally addended with local location code (e.g. BEANR0170100497 = Antwerp, HANSADOK 497)
Type	restriction of xs:string
Properties	use: optional
Facets	minLength 5
	maxLength 15
Used by	Element VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @DestName

Namespace	No namespace
Annotations	Destination name of the target e.g. local code for berth/lock/bridge/terminal
Type	restriction of xs:string

Properties	use: optional
Facets	minLength 1
	maxLength 42
Used by	Element VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @Draught

Namespace	No namespace
Annotations	Actual draught of the vessel in meters
Type	restriction of xs:decimal
Properties	use: optional
Facets	fractionDigits 1
	minExclusive 0
Used by	Element VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @ETA

Namespace	No namespace
Annotations	Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the Expected Time Of Arrival of the target at the destination
Type	xs:dateTime
Properties	use: optional
Used by	Element VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @ISPSLevel

Namespace	No namespace
Annotations	The ISPS level of the object (1 = normal, 2 = heightened, 3 = exceptional)
Type	restriction of xs:decimal
Properties	use: optional
Facets	enumeration 1
	enumeration 2
	enumeration 3
Used by	Element VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @Loaded

Namespace	No namespace
Annotations	Loaded or unloaded with cargo
Type	xs:boolean
Properties	use: optional
Used by	Element VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute VoyageData / @NextPort

Namespace	No namespace
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Annotations	Next port of the target (UN/LOCODE)	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	5
	maxLength	5
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @Passengers

Namespace	No namespace	
Annotations	The number of passengers on board of the object	
Type	restriction of xs:decimal	
Properties	use:	optional
Facets	minExclusive	0
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @PersonsOnBoard

Namespace	No namespace	
Annotations	The number of persons on board of the object, should equal the sum of crew, passengers and support personel if available	
Type	restriction of xs:decimal	
Properties	use:	optional
Facets	minExclusive	0
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @Pilots

Namespace	No namespace	
Annotations	The number of support pilots on board of the object	
Type	restriction of xs:decimal	
Properties	use:	optional
Facets	minExclusive	0
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @PrevPort

Namespace	No namespace	
Annotations	Previous port of the target (UN/LOCODE)	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	5
	maxLength	5
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @RouteBound

Namespace	No namespace	
Annotations	This object is bound to the route of this voyage	
Type	xs:boolean	
Properties	use:	optional
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @SourceId

Namespace	No namespace	
Annotations	The unique identification of the node who initially created this message	
Type	xs:integer	
Properties	use:	required
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @SourceName

Namespace	No namespace	
Annotations	Identification of the originator of this data	
Type	restriction of xs:string	
Properties	use:	optional
Facets	minLength	1
	maxLength	42
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @SourceType

Namespace	No namespace	
Annotations	Source/originator type: 1 = transponder, 2 = database, 3 = manual, 4 = other	
Type	restriction of xs:integer	
Properties	use:	required
Facets	enumeration	1
	enumeration	2
	enumeration	3
	enumeration	4
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @Support

Namespace	No namespace	
Annotations	The number of support personel on board of the object	
Type	restriction of xs:decimal	
Properties	use:	optional
Facets	minExclusive	0
Used by	Element	VoyageData

Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd
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Attribute VoyageData / @TankerStatus

Namespace	No namespace	
Annotations	Describes the status of the tanker 0 = Non gas free 1 = Gas free 2 = Inert	
Type	restriction of xs:integer	
Properties	use:	optional
Facets	enumeration	0
	enumeration	1
	enumeration	2
	enumeration	3
	enumeration	4
	enumeration	9
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @Tugs

Namespace	No namespace	
Annotations	Number of supporting tugs	
Type	restriction of xs:decimal	
Properties	use:	optional
Facets	minExclusive	0
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute VoyageData / @UpdateTime

Namespace	No namespace	
Annotations	Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) this data was compiled	
Type	xs:dateTime	
Properties	use:	optional
Used by	Element	VoyageData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute ObjectData / @Id

Namespace	No namespace	
Annotations	The unique identification of this object, typically identical to Id in the TrackData, but not required	
Type	xs:integer	
Properties	use:	required
Used by	Element	ObjectData
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Ping / @TimeStamp

Namespace	No namespace	
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Annotations	Date and time in (subset ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.	
Type	xs:dateTime	
Properties	use:	required
Used by	Element	Ping
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Pong / @ResponseOn

Namespace	No namespace	
Annotations	Corresponds to the original MsgRefId from the Ping.xml message. Must be an Universally Unique Identifier (TU-T Rec. X.667 ISO/IEC 9834-8.)	
Type	restriction of xs:string	
Properties	use:	required
Facets	minLength	36
	maxLength	42
Used by	Element	Pong
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Pong / @SourceId

Namespace	No namespace	
Annotations	The identification of the node who created this message	
Type	xs:integer	
Properties	use:	required
Used by	Element	Pong
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Pong / @TimeStamp

Namespace	No namespace	
Annotations	Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.	
Type	xs:dateTime	
Properties	use:	required
Used by	Element	Pong
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute ServerStatus / @Details

Namespace	No namespace	
Annotations	Details of status	
Type	restriction of xs:string	
Properties	use:	optional
Facets	maxLength	50
Used by	Element	ServerStatus
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute ServerStatus / @Status

Namespace	No namespace	
Annotations	Status of the server	

Type	xs:boolean
Properties	use: required
Used by	Element ServerStatus
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Transmission / ServiceRequest / @Period

Namespace	No namespace
Annotations	Specifies the time between two periodic updates in seconds, for type 2 (seconds) and 3 (minutes)
Type	xs:decimal
Properties	use: optional
Used by	Element ServiceRequest/Transmission
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Transmission / ServiceRequest / @Type

Namespace	No namespace
Annotations	Type of transmission, possible values are: 1 = single occurrence 2 = periodic (predicted, seconds domain) 3 = down sampled (not predicted, minute domain) 4 = synchronous 5 = on change
Type	restriction of xs:integer
Properties	use: required
Facets	enumeration 1
	enumeration 2
	enumeration 3
	enumeration 4
	enumeration 5
Used by	Element ServiceRequest/Transmission
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Item / ServiceRequest / @Element

Namespace	No namespace
Annotations	Describes requested Object data element, possible values: 1 = TrackData 2 = VesselData 3 = VoyageData
Type	restriction of xs:integer
Properties	use: required
Facets	enumeration 1
	enumeration 2
	enumeration 3
Used by	Element ServiceRequest/Item
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Item / ServiceRequest / @Field

Namespace	No namespace
Annotations	Selected field. Can be 'all' or one of the items of object data TrackData, VesselData or VoyageData
Type	restriction of xs:string

Properties	use: required
Facets	minLength 1
	maxLength 42
Used by	Element ServiceRequest/Item
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Notifications / ServiceRequest / @Crossing

Namespace	No namespace
Type	xs:boolean
Properties	use: optional
Used by	Element ServiceRequest/Notifications
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Notifications / ServiceRequest / @Messages

Namespace	No namespace
Type	xs:boolean
Properties	use: optional
Used by	Element ServiceRequest/Notifications
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute Object / ServiceRequest / @FilterName

Namespace	No namespace
Annotations	Name of the filter. The filter can be a predefined selector of the server. One of the predefined selectors will be 'all', others can defined here in the future
Type	restriction of xs:string
Properties	use: required
Facets	minLength 1
	maxLength 42
Used by	Element ServiceRequest/Object
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute ServiceRequestResponse / @Reason

Namespace	No namespace
Annotations	String describing reason for declining, only used when result is "Declined"
Type	restriction of xs:string
Properties	use: optional
Facets	maxLength 256
Used by	Element ServiceRequestResponse
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd

Attribute ServiceRequestResponse / @ResponseOn

Namespace	No namespace
Annotations	Corresponds to the original MsgRefId from the ServiceRequest message. Must be an Universally Unique Identifier (TU-T Rec. X.667 ISO/IEC 9834-8.)
Type	restriction of xs:string
Properties	use: required

Facets	minLength	36
	maxLength	42
Used by	Element	ServiceRequestResponse
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute ServiceRequestResponse / @Result

Namespace	No namespace	
Annotations	1 = Accepted 2 = Declined	
Type	restriction of xs:integer	
Properties	use:	required
Facets	enumeration	1
	enumeration	2
Used by	Element	ServiceRequestResponse
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	

Attribute Body / MSG_IVEF / @Type

Namespace	No namespace	
Annotations	Type of message	
Type	restriction of xs:string	
Properties	use:	required
Facets	enumeration	LoginRequest
	enumeration	LoginResponse
	enumeration	Logout
	enumeration	Notification
	enumeration	ObjectData
	enumeration	Ping
	enumeration	Pong
	enumeration	ServerStatus
	enumeration	ServiceRequest
	enumeration	ServiceRequestResponse
Used by	Element	MSG_IVEF/Body
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/InputSDK/ivef0_2.xsd	