

Schema documentation for ivef0_2.xsd

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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/IVEF-WG/ivef0_2.xsd

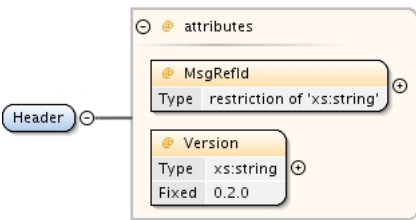
Elements

Element MSG_IVEF

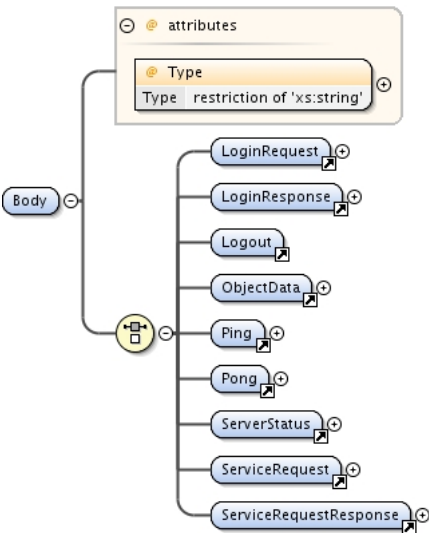
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
Annotations	Root MESSAGE
Diagram	
Properties	content: complex
Model	Header , Body
Children	Body, Header
Instance	<pre><MSG_IVEF> <Header MsgRefId="" Version="0.2.0">{1,1}</Header> <Body Type="">{1,1}</Body> </MSG_IVEF></pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/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/IVEF-WG/ivef0_2.xsd				

Element MSG_IVEF / Body

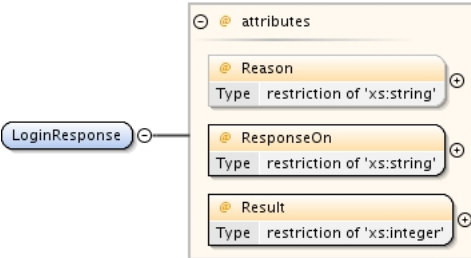
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
Diagram	
Properties	content: complex
Model	LoginRequest LoginResponse Logout ObjectData Ping Pong ServerStatus ServiceRequest ServiceRequestResponse
Children	LoginRequest, LoginResponse, Logout, ObjectData, Ping, Pong, ServerStatus, ServiceRequest, ServiceRequestResponse
Instance	<pre><Body Type=""> <LoginRequest Encryption="" Name="" Password="">{1,1}</LoginRequest> <LoginResponse Reason="" ResponseOn="" Result="">{1,1}</LoginResponse> <Logout>{1,1}</Logout> <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/IVEF-WG/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
		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/IVEF-WG/ivef0_2.xsd				

Element LoginResponse

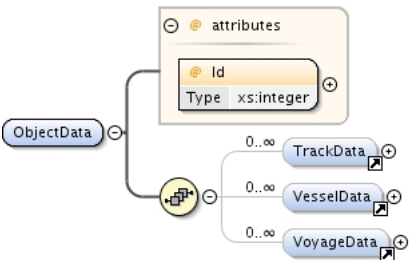
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA login response with acceptance or deny with optional reason				
Diagram	 <pre> graph LR LoginResponse[LoginResponse] --- attributes[attributes] attributes --- Reason[Reason] attributes --- ResponseOn[ResponseOn] attributes --- Result[Result] Reason --- RType[Type restriction of 'xs:string'] ResponseOn --- ROType[Type restriction of 'xs:string'] Result --- ResType[Type restriction of 'xs:integer'] </pre>				
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

	QName	Type	Fixed	Default	Use
		1 = Accepted 2 = Declined			
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/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/IVEF-WG/ivef0_2.xsd		

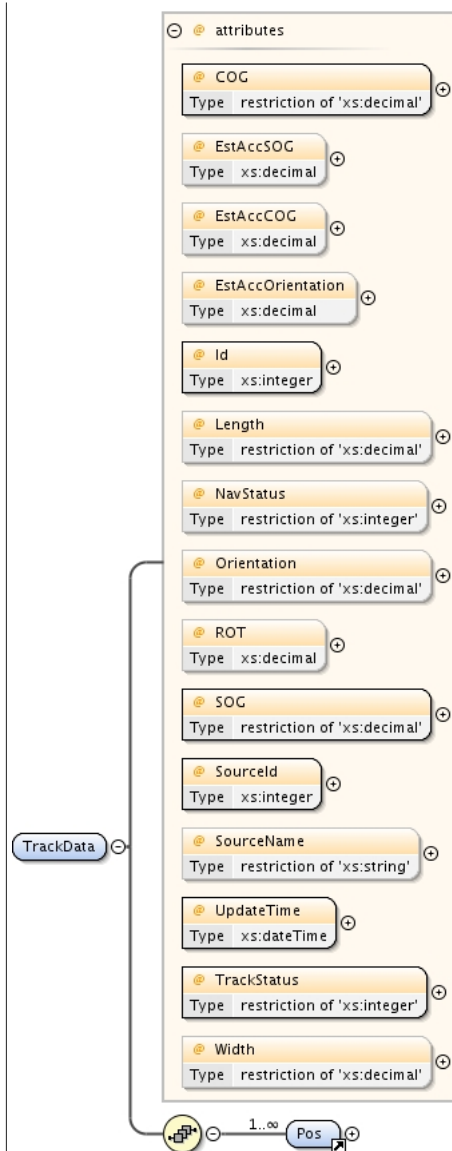
Element ObjectData

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="" Orientation=""> </TrackData> <VesselData BlackListed="" Class="" Deleted="" Detained="" Id="" SourceId="" SourceName="" SourceType=""> </VesselData> <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/IVEF-WG/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

```

<TrackData COG="" EstAccCOG="" EstAccOrientation="" EstAccSOG="" Id="" Length="" NavStatus="" Orientation=""
  <Pos Altitude="" EstAccAlt="" EstAccLat="" EstAccLong="" Lat="" Long="">{1,unbounded}</Pos>
</TrackData>

```

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

QName	Type	Fixed	Default	Use
	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/IVEF-WG/ivef0_2.xsd			

Element Pos

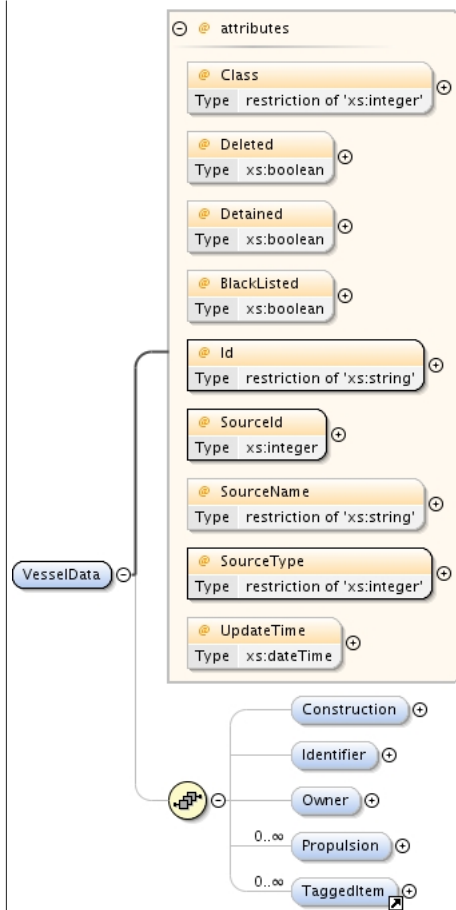
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
Annotations	DATA position measurement of the geometrical centre of the object or location

Diagram					
Properties	content:	complex			
Used by	Elements	Area, TrackData, VoyageData/Waypoint			
Attributes	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
	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/IVEF-WG/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

```

<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>
  
```

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			
Id	restriction of xs:string			required
	The unique identification of this static data			
SourceId	xs:integer			required

QName	Type	Fixed	Default	Use
	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/IVEF-WG/ivef0_2.xsd			

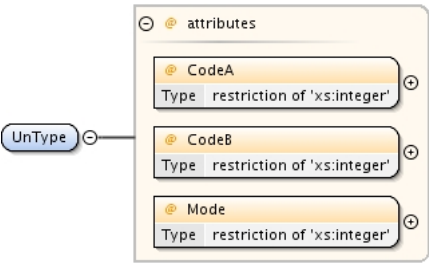
Element VesselData / Construction

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0		
Annotations	attributes of the object regarding the physical construction		
Diagram	<div><div>attributes</div><div><div>Constructor</div><div>Type restriction of 'xs:string'</div></div><div><div>DeadWeight</div><div>Type restriction of 'xs:decimal'</div></div><div><div>GrossWeight</div><div>Type restriction of 'xs:decimal'</div></div><div><div>HullColor</div><div>Type restriction of 'xs:string'</div></div><div><div>HullMaterial</div><div>Type restriction of 'xs:string'</div></div><div><div>HullType</div><div>Type restriction of 'xs:integer'</div></div><div><div>Length</div><div>Type restriction of 'xs:decimal'</div></div><div><div>LloydsShipType</div><div>Type xs:integer</div></div><div><div>MaxAirDraught</div><div>Type restriction of 'xs:decimal'</div></div><div><div>MaxDraught</div><div>Type restriction of 'xs:decimal'</div></div><div><div>MaxPersonsOnBoard</div><div>Type restriction of 'xs:decimal'</div></div><div><div>MaxSpeed</div><div>Type restriction of 'xs:decimal'</div></div><div><div>NetWeight</div><div>Type restriction of 'xs:decimal'</div></div><div><div>TideBound</div><div>Type xs:boolean</div></div><div><div>Width</div><div>Type restriction of 'xs:decimal'</div></div></div> <div><div>Construction</div><div>UnType</div></div>		
Properties	content:	complex	
	minOccurs:	0	
Model	UnType		

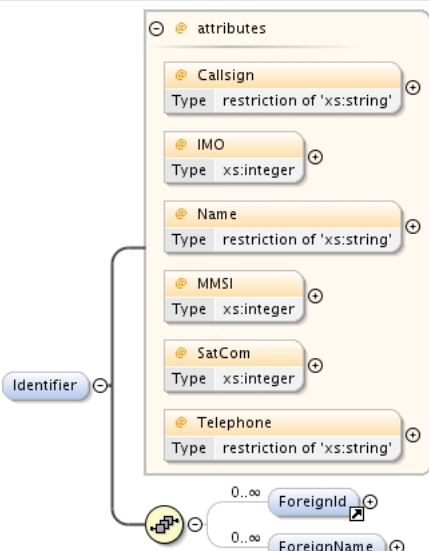
Children	UnType				
Instance	<Construction Constructor="" DeadWeight="" GrossWeight="" HullColor="" HullMaterial="" HullType="" Length=""> <UnType CodeA="" CodeB="" Mode="">{1,1}</UnType> </Construction>				
Attributes	QName	Type	Fixed	Default	Use
	Constructor	restriction of xs:string			optional
		Identification 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/IVEF-WG/ivef0_2.xsd				

Element Construction / VesselData / UnType

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0
Annotations	Object type according to "CODES FOR TYPES OF MEANS OF TRANSPORT" Revision 2 (UNECE CEFACT Trade Facilitation Recommendation No. 28 edition 2007)

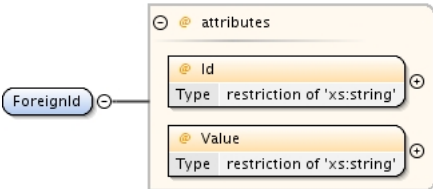
Diagram					
Properties	content:	complex			
Attributes	QName	Type	Fixed	Default	Use
	CodeA	restriction of xs:integer			required
	CodeB	restriction of xs:integer			required
	Mode	restriction of xs:integer			required
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd				

Element VesselData / Identifier

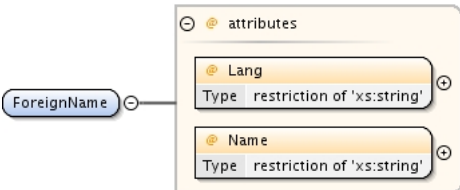
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0								
Annotations	(local) Identification of vessel								
Diagram									
Properties	<table><tr><td>content:</td><td>complex</td></tr><tr><td>minOccurs:</td><td>0</td></tr></table>					content:	complex	minOccurs:	0
content:	complex								
minOccurs:	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							
	MMSI	xs:integer			optional				

	QName	Type	Fixed	Default	Use
		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/IVEF-WG/ivef0_2.xsd				

Element ForeignId

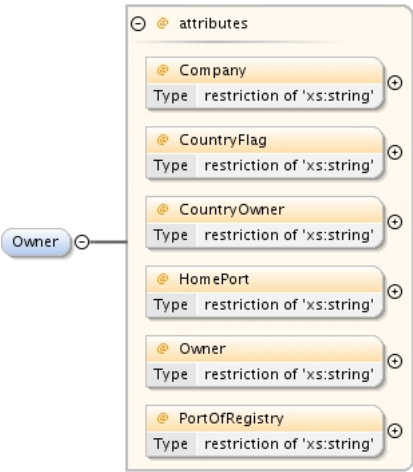
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	Other Id's for the track than the international standard Identifiers				
Diagram					
Properties	content:	complex			
Used by	Element	VesselData/Identifier			
Attributes	QName	Type	Fixed	Default	Use
	Id	restriction of xs:string			required
		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/IVEF-WG/ivef0_2.xsd				

Element ForeignName

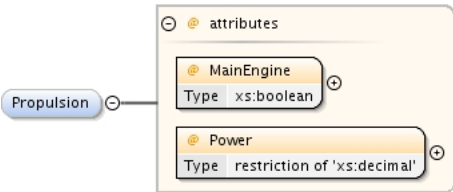
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	Other names for the track than the English name				
Diagram					
Properties	content:	complex			
Used by	Element	VesselData/Identifier			
Attributes	QName	Type	Fixed	Default	Use
	Lang	restriction of xs:string			required
		Language (ISO 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/IVEF-WG/ivef0_2.xsd				

Element VesselData / Owner

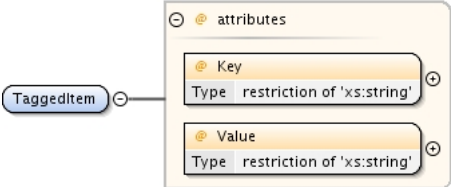
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	attributes of the object regarding the ownership				

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/IVEF-WG/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/IVEF-WG/ivef0_2.xsd				

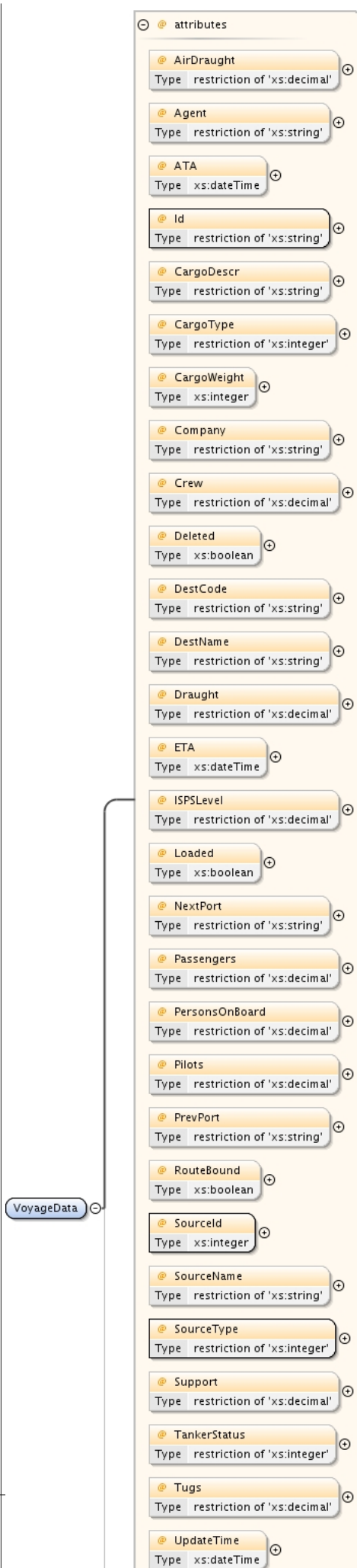
Element TaggedItem

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/IVEF-WG/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/IVEF-WG/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	<table><tr><td>content:</td><td>complex</td></tr><tr><td>minOccurs:</td><td>0</td></tr><tr><td>maxOccurs:</td><td>unbounded</td></tr></table>	content:	complex	minOccurs:	0	maxOccurs:	unbounded																																							
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	<table><tr><th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr><tr><td>ATA</td><td>xs:dateTime</td><td></td><td></td><td>optional</td></tr><tr><td></td><td colspan="4">Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Actual Time Of Arrival of the target.</td></tr><tr><td>ETA</td><td>xs:dateTime</td><td></td><td></td><td>optional</td></tr><tr><td></td><td colspan="4">Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Expected Time Of Arrival of the target.</td></tr><tr><td>LoCode</td><td>restriction of xs:string</td><td></td><td></td><td>optional</td></tr><tr><td></td><td colspan="4">Waypoint name in UN/LOCODE optionally addended with local location code (e.g. BEANR0170100497 = Antwerp, HANSADOK 497)</td></tr><tr><td>Name</td><td>restriction of xs:string</td><td></td><td></td><td>required</td></tr><tr><td></td><td colspan="4">Name of the waypoint</td></tr></table>	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			
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.																																													
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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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/ivef0_2.xsd				

Element ServerStatus

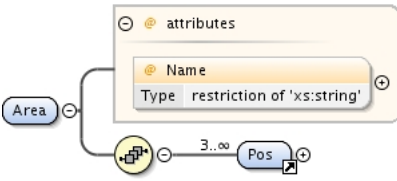
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA describing the status of the server (full/available)				
Diagram					
Properties	content:	complex			
Used by	Element	MSG_IVEF/Body			
Attributes	QName	Type	Fixed	Default	Use
	Details	restriction of xs:string			optional
		Details 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/IVEF-WG/ivef0_2.xsd				

Element ServiceRequest

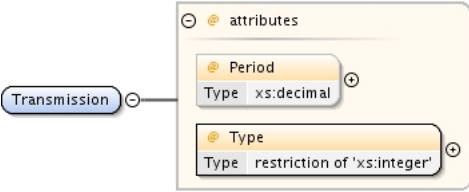
Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA describing the service a user requests				
Diagram					
Properties	content:	complex			

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

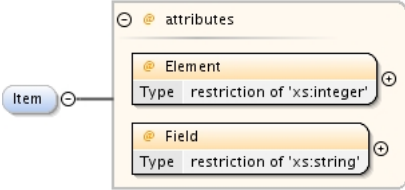
Element Area

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	Element	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/IVEF-WG/ivef0_2.xsd				

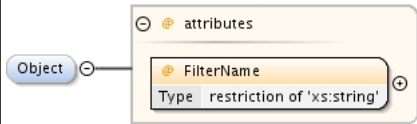
Element ServiceRequest / Transmission

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/IVEF-WG/ivef0_2.xsd				

Element ServiceRequest / Item

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0																													
Diagram																														
Properties	<table><tr><td>content:</td><td>complex</td></tr><tr><td>minOccurs:</td><td>0</td></tr><tr><td>maxOccurs:</td><td>unbounded</td></tr></table>					content:	complex	minOccurs:	0	maxOccurs:	unbounded																			
content:	complex																													
minOccurs:	0																													
maxOccurs:	unbounded																													
Attributes	<table><tr><th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr><tr><td>Element</td><td>restriction of xs:integer</td><td></td><td></td><td>required</td></tr><tr><td></td><td colspan="4">Describes requested Object data element, possible values: 1 = TrackData 2 = VesselData 3 = VoyageData</td></tr><tr><td>Field</td><td>restriction of xs:string</td><td></td><td></td><td>required</td></tr><tr><td></td><td colspan="4">Selected field. Can be 'all' or one of the items of object data TrackData, VesselData or VoyageData</td></tr></table>					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			
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/IVEF-WG/ivef0_2.xsd																													

Element ServiceRequest / Object

Namespace	http://www.ivef.org/XMLSchema/IVEF/0.2.0										
Diagram											
Properties	<table><tr><td>content:</td><td>complex</td></tr><tr><td>minOccurs:</td><td>0</td></tr><tr><td>maxOccurs:</td><td>unbounded</td></tr></table>					content:	complex	minOccurs:	0	maxOccurs:	unbounded
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/IVEF-WG/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"			
	ResponseOn	restriction of xs:string			required
		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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/ivef0_2.xsd
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Attribute LoginRequest / @Name

Namespace	No namespace	
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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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/IVEF-WG/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 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/IVEF-WG/ivef0_2.xsd