

Schema documentation for ivef0_2.xsd

7 july 2009

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Namespace: "http://www.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0"**Schemas****Main schema ivef0_2.xsd**

Namespace	http://www.iala-to-be-confirmed.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.iala-to-be-confirmed.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>{1,1}</Body> </MSG_IVEF></pre>
Source	<pre><xs:element name="MSG_IVEF"> <xs:annotation> <xs:documentation>Root MESSAGE</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="Header"/> <xs:element name="Body"> <xs:complexType> <xs:choice> <xs:element ref="LoginRequest"> <xs:annotation> <xs:documentation>MESSAGE sent by the user to identify oneself and request the default service</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="LoginResponse"> <xs:annotation> <xs:documentation>MESSAGE sent by the supplier indicating wether the user login was accepted or not</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="Logout"> <xs:annotation> <xs:documentation>MESSAGE sent by the user to announce it will close it's connection</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ObjectData"> <xs:annotation> <xs:documentation>MESSAGE sent by the supplier containing data regarding objects in its domain</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="Ping"> <xs:annotation> <xs:documentation>MESSAGE sent by either the user or the supplier to verify the aliveness of the connection, failure to respond within the timeout will lead to disconnect (default = 3 seconds)</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="Pong"> <xs:annotation></pre>

	<pre> <xs:documentation>MESSAGE sent as reply to a MSG_Ping to confirm the aliveness of the connection.</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ServerStatus"> <xs:annotation> <xs:documentation>MESSAGE sent by the server in case the server is experienceing / recovering from load problems</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ServiceRequest"> <xs:annotation> <xs:documentation>MESSAGE sent by the user to request a different service than the current service, to stop all services request data from 0 areas or logout</ xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ServiceRequestResponse"> <xs:annotation> <xs:documentation>MESSAGE sent by the suplier as as a response to a service request</xs:documentation> </xs:annotation> </xs:element> </xs:choice> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </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.iala-to-be-confirmed.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	<table><tr><th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr><tr><td>MsgRefId</td><td>restriction of xs:string</td><td></td><td></td><td>required</td></tr><tr><td></td><td colspan="4">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}</td></tr><tr><td>Version</td><td>xs:string</td><td>0.2.0</td><td></td><td>required</td></tr><tr><td></td><td colspan="4">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</td></tr></table>	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							
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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																													
Source	<pre><xs:element name="Header"> <xs:annotation> <xs:documentation>HEADER part of every message with version and uniqueness information</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="MsgRefId" use="required"> <xs:annotation> <xs:documentation>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}</ xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="Version" fixed="0.2.0" use="required"> <xs:annotation> <xs:documentation>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 </xs:annotation> </xs:attribute> </xs:complexType> </xs:element></pre>																													

	<pre> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="36"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Version" type="xs:string" use="required" fixed="0.2.0"> <xs:annotation> <xs:documentation>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</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </pre>
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.iala-to-be-confirmed.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> <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 ContactIdentity="" Details="" Status="">{1,1}</ServerStatus> <ServiceRequest>{1,1}</ServiceRequest> <ServiceRequestResponse Reason="" ResponseOn="" Result="">{1,1}</ServiceRequestResponse> </Body> </pre>
Source	<pre> <xs:element name="Body"> <xs:complexType> <xs:choice> <xs:element ref="LoginRequest"> <xs:annotation> <xs:documentation>MESSAGE sent by the user to identify oneself and request the default service</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="LoginResponse"> <xs:annotation> <xs:documentation>MESSAGE sent by the supplier indicating wether the user login was accepted or not</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="Logout"> <xs:annotation> <xs:documentation>MESSAGE sent by the user to announce it will close it's connection</xs:documentation> </xs:annotation> </xs:element> </xs:choice> </xs:complexType> </xs:element> </pre>

	<pre> </xs:element> <xs:element ref="ObjectData"> <xs:annotation> <xs:documentation>MESSAGE sent by the supplier containing data regarding objects in its domain</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="Ping"> <xs:annotation> <xs:documentation>MESSAGE sent by either the user or the supplier to verify the aliveness of the connection, failure to respond within the timeout will lead to disconnect (default = 3 seconds)</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="Pong"> <xs:annotation> <xs:documentation>MESSAGE sent as reply to a MSG_Ping to confirm the aliveness of the connection.</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ServerStatus"> <xs:annotation> <xs:documentation>MESSAGE sent by the server in case the server is experienceing / recovering from load problems</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ServiceRequest"> <xs:annotation> <xs:documentation>MESSAGE sent by the user to request a different service than the current service, to stop all services request data from 0 areas or logout</ xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ServiceRequestResponse"> <xs:annotation> <xs:documentation>MESSAGE sent by the suplier as as a response to a service request</xs:documentation> </xs:annotation> </xs:element> </xs:choice> </xs:complexType> </xs:element> </pre>
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.iala-to-be-confirmed.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 - 6 the 5 most common encryption 0 = custom			
	Name	restriction of xs:string			required
		Login name			
	Password	restriction of xs:string			required
	Password value				
Source	<pre><xs:element name="LoginRequest"> <xs:annotation></pre>				


	<pre> <xs:documentation>DATA login message with details of the user</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="Encryption" use="required"> <xs:annotation> <xs:documentation>1 = plain 2 = 6 the 5 most common encryption 0 = custom</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Name" use="required"> <xs:annotation> <xs:documentation>Login name</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Password" use="required"> <xs:annotation> <xs:documentation>Password value</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Element LoginResponse

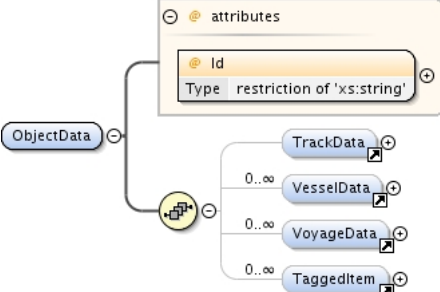
Namespace	http://www.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA login response with acceptance or deny with optional reason				
Diagram					
Properties	content:	complex			
Used by	Element	MSG_IVEF/Body			
Attributes	QName	Type	Fixed	Default	Use
	Reason	restriction of xs:string			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			
Source	<pre><xs:element name="LoginResponse"> <xs:annotation> <xs:documentation>DATA login response with acceptance or deny with optional reason</ </xs:documentation> </xs:element></pre>				

	<pre> </xs:annotation> <xs:complexType> <xs:attribute name="Reason" use="optional"> <xs:annotation> <xs:documentation>String describing reason for declining, only used when result is "Declined"</xs:documentation> </xs:annotation> </xs:attribute> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:complexType> <xs:attribute name="ResponseOn" use="required"> <xs:annotation> <xs:documentation>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.)</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="36"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Result" use="required"> <xs:annotation> <xs:documentation>1 = Accepted 2 = Declined</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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.iala-to-be-confirmed.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
Source	<pre> <xs:element name="Logout"> <xs:annotation> <xs:documentation>DATA logout message, the server will drop the connection if logout is successfull</xs:documentation> </xs:annotation> </xs:element> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Element ObjectData

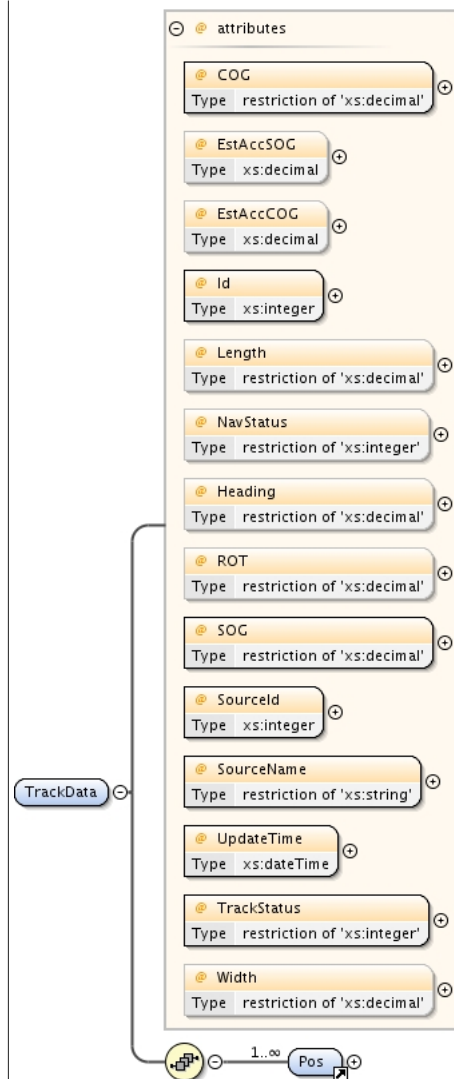
Namespace	http://www.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0
Annotations	DATA regarding an object in the supliers domain, contains at least 1 one of the sub elements (TrackData, VesselData, VoyageData)
Diagram	 <p>The diagram illustrates the structure of the ObjectData element. It is a complex type with an Id attribute (restriction of 'xs:string'). The main body of the element is a choice (indicated by a circle with a plus sign) containing four sub-elements: TrackData, VesselData, VoyageData, and TaggedItem. Each sub-element has a cardinality of 0..∞.</p>

Properties	content: complex				
Used by	Element MSG_IVEF/Body				
Model	TrackData{0,1} , VesselData* , VoyageData* , TaggedItem*				
Children	TaggedItem, TrackData, VesselData, VoyageData				
Instance	<pre><ObjectData Id=""> <TrackData COG="" EstAccCOG="" EstAccSOG="" Heading="" Id="" Length="" NavStatus="" ROT="" SOG="" Sour TrackData> <VesselData BlackListed="" Class="" Id="" SourceId="" SourceName="" SourceType="" SpecialAttention="" VesselData> <VoyageData AirDraught="" CargoTypeIMO="" ContactIdentity="" DestCode="" DestName="" Draught="" ETA="" VoyageData> <TaggedItem Key="" Value="">{0,unbounded}</TaggedItem> </ObjectData></pre>				
Attributes	QName	Type	Fixed	Default	Use
	Id	restriction of xs:string			required
	Must be an Universally Unique Identifier for each object(TU-T Rec. X.667 ISO/IEC 9834-8.). 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} line up with UMDM object identification				
Source	<pre><xs:element name="ObjectData"> <xs:annotation> <xs:documentation>DATA regarding an object in the suppliers domain, contains at least 1 one of the sub elements (TrackData, VesselData, VoyageData)</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="TrackData" minOccurs="0"/> <xs:element ref="VesselData" minOccurs="0" maxOccurs="unbounded"/> <xs:element ref="VoyageData" minOccurs="0" maxOccurs="unbounded"/> <xs:element ref="TaggedItem" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="Id" use="required"> <xs:annotation> <xs:documentation>Must be an Universally Unique Identifier for each object(TU-T Rec. X.667 ISO/IEC 9834-8.). 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} line up with UMDM object identification</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="36"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>				
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.iala-to-be-confirmed.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="" EstAccSOG="" Heading="" Id="" Length="" NavStatus="" ROT="" SOG="" SourceName="" UpdateTime="" TrackStatus="" Width="">
  <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 standard deviation of the calculated value expressed in degrees				
EstAccSOG	xs:decimal			optional
Estimated accuracy standard deviation of the calculated value expressed in m/s				
Heading	restriction of xs:decimal			optional
Heading of the target in degrees				

QName	Type	Fixed	Default	Use
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
	Measured 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			
ROT	restriction of 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			required
	Identification of the originator of the data			
TrackStatus	restriction of xs:integer			required
	1 = Updated, (sensors are updating the track) 2 = Coasted, (no sensor is updating the track) 3 = Dropped			
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
	Measured Width of the target in meter			
Source	<pre> <xs:element name="TrackData"> <xs:annotation> <xs:documentation>DATA describing a position report of an object</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="Pos" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="COG" use="required"> <xs:annotation> <xs:documentation>Course over ground in degrees. (0-360)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="1"/> <xs:minInclusive value="0"/> <xs:maxInclusive value="360"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="EstAccSOG" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>Estimated accuracy standard deviation of the calculated value expressed in m/s</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </pre>			

```

<xs:attribute name="EstAccCOG" type="xs:decimal" use="optional">
  <xs:annotation>
    <xs:documentation>Estimated accuracy standard deviation of the calculated value
expressed in degrees</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="Id" type="xs:integer" use="required">
  <xs:annotation>
    <xs:documentation>The unique identification of this track. Valid from first
message with TrackStatus!=Terminated to first message with TrackStatus=Terminated</
xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="Length" use="optional">
  <xs:annotation>
    <xs:documentation>Measured length of the target in meter</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:decimal">
      <xs:minExclusive value="0"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="NavStatus" use="optional">
  <xs:annotation>
    <xs:documentation>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</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:integer">
      <xs:enumeration value="0"/>
      <xs:enumeration value="1"/>
      <xs:enumeration value="2"/>
      <xs:enumeration value="3"/>
      <xs:enumeration value="4"/>
      <xs:enumeration value="5"/>
      <xs:enumeration value="6"/>
      <xs:enumeration value="7"/>
      <xs:enumeration value="8"/>
      <xs:enumeration value="9"/>
      <xs:enumeration value="15"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="Heading" use="optional">
  <xs:annotation>
    <xs:documentation>Heading of the target in degrees</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:decimal">
      <xs:minInclusive value="0.0"/>
      <xs:maxInclusive value="360.0"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="ROT" use="optional">
  <xs:annotation>
    <xs:documentation>Rate of turn in degrees per minute</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:decimal">
      <xs:fractionDigits value="1"/>
      <xs:minExclusive value="-720"/>
      <xs:minInclusive value="720"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="SOG" use="required">
  <xs:annotation>
    <xs:documentation>Speed over ground in meters per second</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:decimal">
      <xs:fractionDigits value="1"/>
      <xs:minInclusive value="0"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="SourceId" type="xs:integer" use="required">
  <xs:annotation>

```

	<pre> <xs:documentation>The unique identification of the node who initially created this message</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="SourceName" use="required"> <xs:annotation> <xs:documentation>Identification of the originator of the data</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="UpdateTime" type="xs:dateTime" use="required"> <xs:annotation> <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mm:ss.sssZ) (subset of ISO 8601) this position was measured.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="TrackStatus" use="required"> <xs:annotation> <xs:documentation>1 = Updated, (sensors are updating the track) 2 = Coasted, (no sensor is updating the track) 3 = Dropped</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Width" use="optional"> <xs:annotation> <xs:documentation>Measured Width of the target in meter</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minExclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

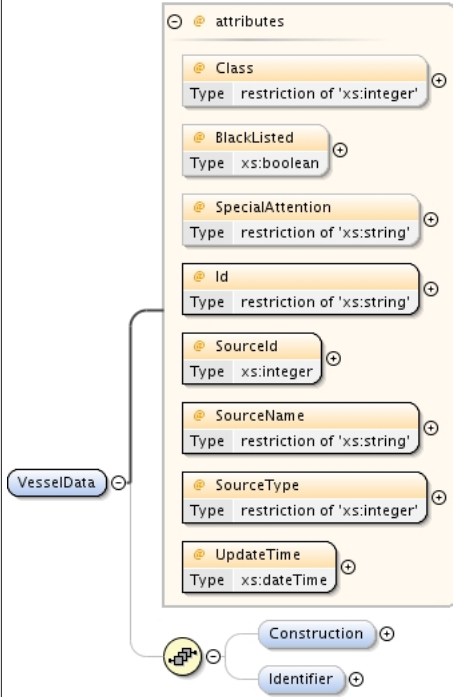
Element Pos

Namespace	http://www.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0
Annotations	DATA position measurement of the geometrical centre of the object or location
Diagram	<pre> classDiagram class Pos { Altitude xs:decimal EstAccAlt xs:decimal EstAccLat xs:decimal EstAccLong xs:decimal Lat restriction of 'xs:decimal' Long restriction of 'xs:decimal' } </pre>
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 standard deviation of the calculated position of a target expressed in m			
	EstAccLat	xs:decimal			optional
		Estimated accuracy standard deviation of the calculated position of a target expressed in m			
	EstAccLong	xs:decimal			optional
		Estimated accuracy 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				
Source	<pre><xs:element name="Pos"> <xs:annotation> <xs:documentation>DATA position measurement of the geometrical centre of the object or location</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="Altitude" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>The altitude of the target above the WGS-84 ellipsoid in meters</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="EstAccAlt" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>Estimated accuracy standard deviation of the calculated position of a target expressed in m</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="EstAccLat" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>Estimated accuracy standard deviation of the calculated position of a target expressed in m</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="EstAccLong" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>Estimated accuracy standard deviation of the calculated position of a target expressed in m</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="Lat" use="required"> <xs:annotation> <xs:documentation>Latitude (WGS84) in degrees. (+/- 90 degrees; North = positive; South = negative) Examples: -90deg (south) = -90.0000000 0deg0min1sec (north) = 0.0000016 50deg50min (north) = 50.8333333</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="5"/> <xs:minInclusive value="-90.00000"/> <xs:maxInclusive value="+90.00000"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>				

	<pre> <xs:attribute name="Long" use="required"> <xs:annotation> <xs:documentation>Longitude (WGS84) in degrees. (+/- 180 degrees; East = positive; West = negative). Examples: -180deg (west) = -180.000000 0deg0min1sec (east) = 0.0000016</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="5"/> <xs:maxInclusive value="+180.00000"/> <xs:minExclusive value="-180.00000"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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.iala-to-be-confirmed.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}				
Children	Construction, Identifier				
Instance	<pre><VesselData BlackListed="" Class="" Id="" SourceId="" SourceName="" SourceType="" SpecialAttention="" UpdateTime=""> <Construction HullColor="" HullType="" Length="" LloydsShipType="" MaxDraught="" MaxKeelHeight="" MaxKeelLength=""> <Identifier Callsign="" IMO="" LRIT="" MMSI="" Name="">{0,1}</Identifier> </VesselData></pre>				
Attributes	QName	Type	Fixed	Default	Use
	BlackListed	xs:boolean			optional
		Vessel is blacklisted by a NCA			
	Class	restriction of xs:integer			optional
		0 = Unknown 1 = Vessel 2 = Aids to Navigate			
	Id	restriction of xs:string			required

QName	Type	Fixed	Default	Use
	The unique identification of this vesseldata			
SourceId	xs:integer			required
	The unique identification of the node who initially created this message			
SourceName	restriction of xs:string			required
	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 4 = External source			
SpecialAttention	restriction of xs:string			optional
	Vessel is under special attention of the NCA or fairway authorities			
UpdateTime	xs:dateTime			required
	Date and time in UTC format (YYYY-MM-DDThh:mm:ss.sssZ) (subset of ISO 8601) this data was compiled			
Source	<pre> <xs:element name="VesselData"> <xs:annotation> <xs:documentation>DATA regarding static elements of an object</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence minOccurs="0"> <xs:element name="Construction" minOccurs="0"> <xs:annotation> <xs:documentation>attributes of the object regarding the physical construction</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence minOccurs="0"> <xs:element name="UnType"> <xs:annotation> <xs:documentation>Object type according to "CODES FOR TYPES OF MEANS OF TRANSPORT" Revision 2 (UNECE CEFAC Trade Facilitation Recommendation No. 28 edition 2007) Check latest version</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CodeA" use="required"> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> <xs:maxInclusive value="138"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CodeB" use="required"> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> <xs:maxInclusive value="9"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Mode" use="required"> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> <xs:enumeration value="6"/> <xs:enumeration value="7"/> <xs:enumeration value="8"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </xs:sequence> <xs:attribute name="HullColor" use="optional"> <xs:annotation> <xs:documentation>Color of Hull (in RGB hex) for SAR operations</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="6"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:sequence> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </pre>			


```

        <xs:maxLength value="6"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="HullType" use="optional">
    <xs:annotation>
      <xs:documentation>Type of hull (1 = single, 2 = double, 3 = triple)</
xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:simpleType>
    <xs:restriction base="xs:integer">
      <xs:enumeration value="1"/>
      <xs:enumeration value="2"/>
      <xs:enumeration value="3"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="Length" use="optional">
  <xs:annotation>
    <xs:documentation>Length of the target in meter as confirmed by NCA</
xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:simpleType>
  <xs:restriction base="xs:decimal">
    <xs:minExclusive value="0"/>
  </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="LloydsShipType" type="xs:integer" use="optional">
  <xs:annotation>
    <xs:documentation>Number indicating type of vessel</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="MaxKeelHeight" use="optional">
  <xs:annotation>
    <xs:documentation>Maximum height of the object, to be used if voyage data is
not available</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:simpleType>
  <xs:restriction base="xs:decimal">
    <xs:fractionDigits value="1"/>
    <xs:minExclusive value="0"/>
  </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="MaxDraught" use="optional">
  <xs:annotation>
    <xs:documentation>Maximum draught of the object in meters, to be used if
voyage data is not available</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:simpleType>
  <xs:restriction base="xs:decimal">
    <xs:fractionDigits value="1"/>
    <xs:minExclusive value="0"/>
  </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="MaxPersonsOnBoard" use="optional">
  <xs:annotation>
    <xs:documentation>The maximum number of persons on board of the object
(crew, support, passengers, pilots)</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:simpleType>
  <xs:restriction base="xs:decimal">
    <xs:minExclusive value="0"/>
  </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="MaxSpeed" use="optional">
  <xs:annotation>
    <xs:documentation>The maximum speed the object is able to sustain with
normal draft and load</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:simpleType>
  <xs:restriction base="xs:decimal">
    <xs:minExclusive value="0"/>
  </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="Width" use="optional">
  <xs:annotation>
    <xs:documentation>Width of the target in meter as confirmed by the NCA</
xs:documentation>
  </xs:annotation>
</xs:attribute>

```

```

        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:decimal">
            <xs:minExclusive value="0"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:complexType>
  </xs:element>
  <xs:element name="Identifier" minOccurs="0">
    <xs:annotation>
      <xs:documentation>(local) Identification of vessel</xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="ForeignId" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element ref="ForeignName" minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
      <xs:attribute name="Callsign" use="optional">
        <xs:annotation>
          <xs:documentation>Callsign of the target, in accordance with Article 19,
Section III of the ITU Radio Regulations (RR)</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="9"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute name="IMO" type="xs:integer" use="optional">
        <xs:annotation>
          <xs:documentation>IMO number of the target</xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:attribute name="Name" use="optional">
        <xs:annotation>
          <xs:documentation>Name of the target</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="42"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute name="MMSI" type="xs:integer" use="optional">
        <xs:annotation>
          <xs:documentation>MMSI number of the target</xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:attribute name="LRIT" use="optional">
        <xs:annotation>
          <xs:documentation>LRIT identification</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="42"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:complexType>
  </xs:element>
</xs:sequence>
<xs:attribute name="Class" use="optional">
  <xs:annotation>
    <xs:documentation>0 = Unknown 1 = Vessel 2 = Aids to Navigate</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:integer">
      <xs:enumeration value="0"/>
      <xs:enumeration value="1"/>
      <xs:enumeration value="2"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="BlackListed" type="xs:boolean" use="optional">
  <xs:annotation>
    <xs:documentation>Vessel is blacklisted by a NCA</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="SpecialAttention" use="optional">

```

```

<xs:annotation>
  <xs:documentation>Vessel is under special attention of the NCA or fairway
authorities</xs:documentation>
</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:string">
    <xs:maxLength value="20"/>
  </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="Id" use="required">
  <xs:annotation>
    <xs:documentation>The unique identification of this vesseldata</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="20"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="SourceId" type="xs:integer" use="required">
  <xs:annotation>
    <xs:documentation>The unique identification of the node who initially created this
message</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="SourceName" use="required">
  <xs:annotation>
    <xs:documentation>Identification of the originator of the data</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="1"/>
      <xs:maxLength value="42"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="SourceType" use="required">
  <xs:annotation>
    <xs:documentation>Source/originator type: 1 = AIS transponder 2 = VTS Plan Server
3 = Operator 4 = External source</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:integer">
      <xs:enumeration value="1"/>
      <xs:enumeration value="2"/>
      <xs:enumeration value="3"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="UpdateTime" type="xs:dateTime" use="required">
  <xs:annotation>
    <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mm:ss.sssZ) (subset
of ISO 8601) this data was compiled</xs:documentation>
  </xs:annotation>
</xs:attribute>
</xs:complexType>
</xs:element>

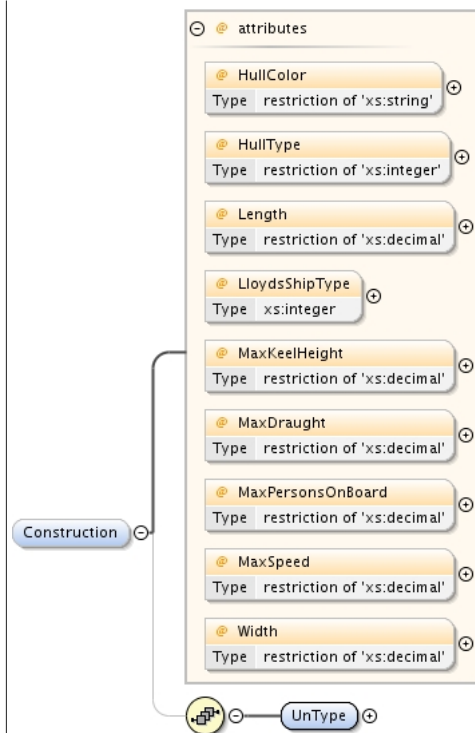
```

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.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0
Annotations	attributes of the object regarding the physical construction

Diagram



Properties

content:	complex
minOccurs:	0

Model

UnType

Children

UnType

Instance

```
<Construction HullColor="" HullType="" Length="" LloydsShipType="" MaxDraught="" MaxKeelHeight="" MaxPersonsOnBoard="" MaxSpeed="" Width="">
  <UnType CodeA="" CodeB="" Mode="">{1,1}</UnType>
</Construction>
```

Attributes

QName	Type	Fixed	Default	Use
HullColor	restriction of xs:string			optional
	Color of Hull (in RGB hex) for SAR operations			
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 as confirmed by NCA			
LloydsShipType	xs:integer			optional
	Number indicating type of vessel			
MaxDraught	restriction of xs:decimal			optional
	Maximum draught of the object in meters, to be used if voyage data is not available			
MaxKeelHeight	restriction of xs:decimal			optional
	Maximum height of the object, to be used if voyage data is not available			
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			

	QName	Type	Fixed	Default	Use
	Width	restriction of xs:decimal			optional
		Width of the target in meter as confirmed by the NCA			
Source	<pre><xs:element name="Construction" minOccurs="0"> <xs:annotation> <xs:documentation>attributes of the object regarding the physical construction</ xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence minOccurs="0"> <xs:element name="UnType"> <xs:annotation> <xs:documentation>Object type according to "CODES FOR TYPES OF MEANS OF TRANSPORT" Revision 2 (UNECE CEFAC Trade Facilitation Recommendation No. 28 edition 2007) Check latest version</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CodeA" use="required"> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> <xs:maxInclusive value="138"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CodeB" use="required"> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> <xs:maxInclusive value="9"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Mode" use="required"> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> <xs:enumeration value="6"/> <xs:enumeration value="7"/> <xs:enumeration value="8"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </xs:sequence> <xs:attribute name="HullColor" use="optional"> <xs:annotation> <xs:documentation>Color of Hull (in RGB hex) for SAR operations</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="6"/> <xs:maxLength value="6"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="HullType" use="optional"> <xs:annotation> <xs:documentation>Type of hull (1 = single, 2 = double, 3 = triple)</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Length" use="optional"> <xs:annotation> <xs:documentation>Length of the target in meter as confirmed by NCA</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"></pre>				

```

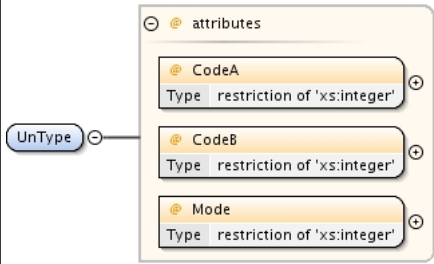
        <xs:minExclusive value="0"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="LloydsShipType" type="xs:integer" use="optional">
    <xs:annotation>
      <xs:documentation>Number indicating type of vessel</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="MaxKeelHeight" use="optional">
    <xs:annotation>
      <xs:documentation>Maximum height of the object, to be used if voyage data is not
available</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:decimal">
        <xs:fractionDigits value="1"/>
        <xs:minExclusive value="0"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="MaxDraught" use="optional">
    <xs:annotation>
      <xs:documentation>Maximum draught of the object in meters, to be used if voyage
data is not available</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:decimal">
        <xs:fractionDigits value="1"/>
        <xs:minExclusive value="0"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="MaxPersonsOnBoard" use="optional">
    <xs:annotation>
      <xs:documentation>The maximum number of persons on board of the object (crew,
support, passengers, pilots)</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:decimal">
        <xs:minExclusive value="0"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="MaxSpeed" use="optional">
    <xs:annotation>
      <xs:documentation>The maximum speed the object is able to sustain with normal
draft and load</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:decimal">
        <xs:minExclusive value="0"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Width" use="optional">
    <xs:annotation>
      <xs:documentation>Width of the target in meter as confirmed by the NCA</
xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:decimal">
        <xs:minExclusive value="0"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>
</xs:element>

```

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.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0
Annotations	Object type according to "CODES FOR TYPES OF MEANS OF TRANSPORT" Revision 2 (UNECE CEFAC Trade Facilitation Recommendation No. 28 edition 2007) Check latest version

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
Source	<pre> <xs:element name="UnType"> <xs:annotation> <xs:documentation>Object type according to "CODES FOR TYPES OF MEANS OF TRANSPORT" Revision 2 (UNECE CEFAC Trade Facilitation Recommendation No. 28 edition 2007) Check latest version</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CodeA" use="required"> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> <xs:maxInclusive value="138"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CodeB" use="required"> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> <xs:maxInclusive value="9"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Mode" use="required"> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> <xs:enumeration value="6"/> <xs:enumeration value="7"/> <xs:enumeration value="8"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>				
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd				

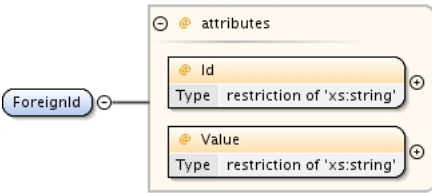
Element VesselData / Identifier

Namespace	http://www.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0
Annotations	(local) Identification of vessel

Diagram															
Properties	<table><tr><td>content:</td><td colspan="4">complex</td></tr><tr><td>minOccurs:</td><td colspan="4">0</td></tr></table>					content:	complex				minOccurs:	0			
content:	complex														
minOccurs:	0														
Model	ForeignId* , ForeignName*														
Children	ForeignId, ForeignName														
Instance	<pre><Identifier Callsign="" IMO="" LRIT="" MMSI="" Name=""> <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													
	LRIT	restriction of xs:string			optional										
		LRIT identification													
	MMSI	xs:integer			optional										
		MMSI number of the target													
	Name	restriction of xs:string			optional										
	Name of the target														
Source	<pre><xs:element name="Identifier" minOccurs="0"> <xs:annotation> <xs:documentation>(local) Identification of vessel</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="ForeignId" minOccurs="0" maxOccurs="unbounded"/> <xs:element ref="ForeignName" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="Callsign" use="optional"> <xs:annotation> <xs:documentation>Callsign of the target, in accordance with Article 19, Section III of the ITU Radio Regulations (RR)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="0"/> <xs:maxLength value="9"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="IMO" type="xs:integer" use="optional"> <xs:annotation> <xs:documentation>IMO number of the target</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="Name" use="optional"> <xs:annotation></pre>														

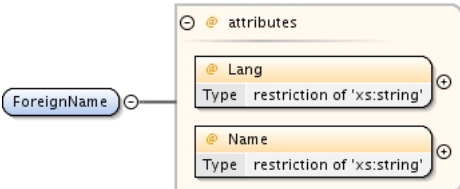
	<pre> <xs:documentation>Name of the target</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="MMSI" type="xs:integer" use="optional"> <xs:annotation> <xs:documentation>MMSI number of the target</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="LRIT" use="optional"> <xs:annotation> <xs:documentation>LRIT identification</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0				
Annotations	Other Id's for the track than the world wide international standard Identifiers, e.g. regional indentifiers like ENI				
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			
Source	<pre><xs:element name="ForeignId"> <xs:annotation> <xs:documentation>Other Id's for the track than the world wide international standard Identifiers, e.g. regional indentifiers like ENI</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="Id" use="required"> <xs:annotation> <xs:documentation>Name of the Identifier</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Value" use="required"> <xs:annotation> <xs:documentation>Value of the identifier</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"></pre>				

	<pre> <xs:minLength value="1" /> <xs:maxLength value="42" /> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

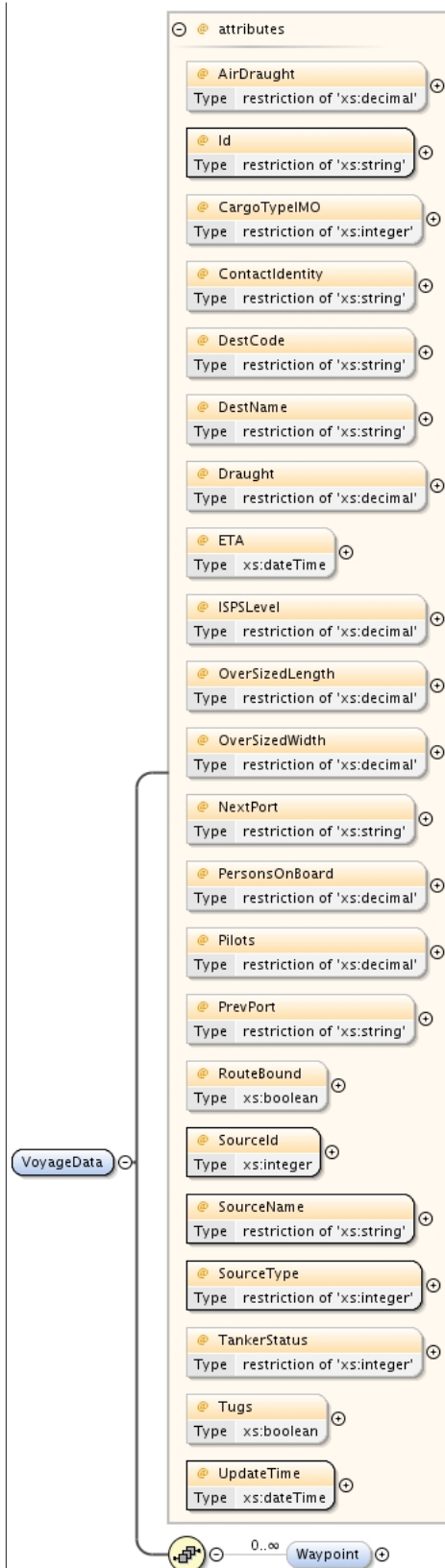
Element ForeignName

Namespace	http://www.iala-to-be-confirmed.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			
Source	<pre><xs:element name="ForeignName"> <xs:annotation> <xs:documentation>Other names for the track than the English name</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="Lang" use="required"> <xs:annotation> <xs:documentation>Language (ISO 3166-1-alpha2)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="2"/> <xs:maxLength value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Name" use="required"> <xs:annotation> <xs:documentation>Name in the foreign language</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>				
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.iala-to-be-confirmed.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	Waypoint*
Children	Waypoint
Instance	<pre><VoyageData AirDraught="" CargoTypeIMO="" ContactIdentity="" DestCode="" DestName="" Draught="" ETA="" ISPSLevel="" OverSizedLength="" OverSizedWidth="" NextPort="" PersonsOnBoard="" Pilots="" PrevPort="" RouteBound="" SourceId="" SourceName="" SourceType="" TankerStatus="" Tugs="" UpdateTime=""</pre>

Attributes	<code><Waypoint ATA=" " ETA=" " LoCode=" " Name=" " RTA=" ">{0,unbounded}</Waypoint></code> <code></VoyageData></code>				
	QName	Type	Fixed	Default	Use
	AirDraught	restriction of xs:decimal			optional
	Actual air draught of the vessel in meters				
	CargoTypeIMO	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				
	ContactIdentity	restriction of xs:string			optional
	reference to the identity associated with this objects voyage				
	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				
	NextPort	restriction of xs:string			optional
	Next port of the target (UN/LOCODE)				
	OverSizedLength	restriction of xs:decimal			optional
	Length of the target in meter as confirmed by NCA, in case of a convoy of barges				
	OverSizedWidth	restriction of xs:decimal			optional
	Width of the target in meter as confirmed by the NCA, in case of a convoy of barges				
	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
	Pilot status 0 = unknown 1 = pilot on board 2 = object under remote pilotage 3 = pilot required				
	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				

QName	Type	Fixed	Default	Use
SourceId	xs:integer			required
	The unique identification of the node who initially created this message			
SourceName	restriction of xs:string			required
	Identification of the originator of this data			
SourceType	restriction of xs:integer			required
	Source/originator type: 1 = transponder, 2 = database, 3 = manual, 4 = fused, 5 = unknown			
TankerStatus	restriction of xs:integer			optional
	Describes the status of the tanker 0 = Non gas free 1 = Gas free 2 = Inert			
Tugs	xs:boolean			optional
	Object uses tugs			
UpdateTime	xs:dateTime			required
	Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) this data was compiled			
Source	<pre> <xs:element name="VoyageData"> <xs:annotation> <xs:documentation>DATA regarding a movement of a vessel servers domain</ </xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="Waypoint" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Waypoint belonging to the route of this voyage</ </xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="Pos" minOccurs="0"/> </xs:sequence> <xs:attribute name="ATA" type="xs:dateTime" use="optional"> <xs:annotation> <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Actual Time Of Arrival of the target.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="ETA" type="xs:dateTime" use="optional"> <xs:annotation> <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Expected Time Of Arrival of the target.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="RTA" type="xs:dateTime" use="optional"> <xs:annotation> <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Requested Time Of Arrival of the target.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="LoCode" use="optional"> <xs:annotation> <xs:documentation>Waypoint name in UN/LOCODE optionally addended with local location code (e.g. BEANR0170100497 = Antwerp, HANSADOK 497)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="5"/> <xs:maxLength value="15"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Name" use="required"> <xs:annotation> <xs:documentation>Name of the waypoint</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> </pre>			

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        <xs:maxLength value="42"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:attribute name="AirDraught" use="optional">
  <xs:annotation>
    <xs:documentation>Actual air draught of the vessel in meters</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:decimal">
      <xs:fractionDigits value="2"/>
      <xs:minExclusive value="0"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="Id" use="required">
  <xs:annotation>
    <xs:documentation>The identification of this voyage</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="20"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="CargoTypeIMO" use="optional">
  <xs:annotation>
    <xs:documentation>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</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:integer">
      <xs:enumeration value="0"/>
      <xs:enumeration value="1"/>
      <xs:enumeration value="2"/>
      <xs:enumeration value="3"/>
      <xs:enumeration value="4"/>
      <xs:enumeration value="5"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="ContactIdentity" use="optional">
  <xs:annotation>
    <xs:documentation>reference to the identity associated with this objects voyage</
xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="1"/>
      <xs:maxLength value="254"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="DestCode" use="optional">
  <xs:annotation>
    <xs:documentation>Destination of the target (UN/LOCODE) optionally added with
local location code (e.g. BEANR0170100497 = Antwerp, HANSADOK 497)</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="5"/>
      <xs:maxLength value="15"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="DestName" use="optional">
  <xs:annotation>
    <xs:documentation>Destination name of the target e.g. local code for berth/lock/
bridge/terminal</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="1"/>
      <xs:maxLength value="42"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>

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<xs:attribute name="Draught" use="optional">
  <xs:annotation>
    <xs:documentation>Actual draught of the vessel in meters</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:decimal">
      <xs:fractionDigits value="2"/>
      <xs:minExclusive value="0"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="ETA" type="xs:dateTime" use="optional">
  <xs:annotation>
    <xs:documentation>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</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="ISPSLevel" use="optional">
  <xs:annotation>
    <xs:documentation>The ISPS level of the object (1 = normal, 2 = heightened, 3 = exceptional)</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:decimal">
      <xs:enumeration value="1"/>
      <xs:enumeration value="2"/>
      <xs:enumeration value="3"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="OverSizedLength" use="optional">
  <xs:annotation>
    <xs:documentation>Length of the target in meter as confirmed by NCA, in case of a convoy of barges</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:decimal">
      <xs:fractionDigits value="1"/>
      <xs:minExclusive value="0"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="OverSizedWidth" use="optional">
  <xs:annotation>
    <xs:documentation>Width of the target in meter as confirmed by the NCA, in case of a convoy of barges</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:decimal">
      <xs:fractionDigits value="1"/>
      <xs:minExclusive value="0"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="NextPort" use="optional">
  <xs:annotation>
    <xs:documentation>Next port of the target (UN/LOCODE)</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="5"/>
      <xs:maxLength value="5"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="PersonsOnBoard" use="optional">
  <xs:annotation>
    <xs:documentation>The number of persons on board of the object, should equal the sum of crew, passengers and support personel if available</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:decimal">
      <xs:minExclusive value="0"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="Pilots" use="optional">
  <xs:annotation>
    <xs:documentation>Pilot status 0 = unknown 1 = pilot on board 2 = object under remote pilotage 3 = pilot required</xs:documentation>
  </xs:annotation>
  <xs:simpleType>

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        <xs:restriction base="xs:decimal">
          <xs:minExclusive value="0" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="PrevPort" use="optional">
      <xs:annotation>
        <xs:documentation>Previous port of the target (UN/LOCODE)</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:minLength value="5" />
        <xs:maxLength value="5" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="RouteBound" type="xs:boolean" use="optional">
    <xs:annotation>
      <xs:documentation>This object is bound to the route of this voyage</
xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="SourceId" type="xs:integer" use="required">
    <xs:annotation>
      <xs:documentation>The unique identification of the node who initially created this
message</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="SourceName" use="required">
    <xs:annotation>
      <xs:documentation>Identification of the originator of this data</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="1" />
      <xs:maxLength value="42" />
    </xs:restriction>
  </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="SourceType" use="required">
    <xs:annotation>
      <xs:documentation>Source/originator type: 1 = transponder, 2 = database, 3 =
manual, 4 = fused, 5 = unknown</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:simpleType>
    <xs:restriction base="xs:integer">
      <xs:enumeration value="1" />
      <xs:enumeration value="2" />
      <xs:enumeration value="3" />
      <xs:enumeration value="4" />
      <xs:enumeration value="5" />
    </xs:restriction>
  </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="TankerStatus" use="optional">
    <xs:annotation>
      <xs:documentation>Describes the status of the tanker 0 = Non gas free 1 = Gas free
2 = Inert</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:simpleType>
    <xs:restriction base="xs:integer">
      <xs:enumeration value="0" />
      <xs:enumeration value="1" />
      <xs:enumeration value="2" />
    </xs:restriction>
  </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Tugs" use="optional" type="xs:boolean">
    <xs:annotation>
      <xs:documentation>Object uses tugs</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="UpdateTime" type="xs:dateTime" use="required">
    <xs:annotation>
      <xs:documentation>Date and time in (subset of ISO 8601) UTC format (YYYY-MM-
DDThh:mm:ss.sssZ) this data was compiled</xs:documentation>
    </xs:annotation>
  </xs:attribute>
</xs:complexType>
</xs:element>

```

Schema location

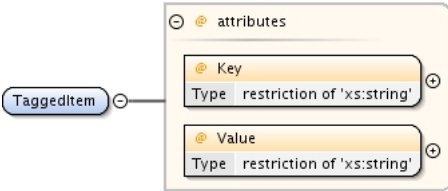
file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Element VoyageData / Waypoint

Namespace	http://www.iala-to-be-confirmed.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="" RTA=""> <Pos Altitude="" EstAccAlt="" EstAccLat="" EstAccLong="" Lat="" Long="">{0,1}</Pos> </Waypoint></pre>																																																											
Attributes	<table><thead><tr><th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr></thead><tbody><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><tr><td>RTA</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 Requested Time Of Arrival of the target.</td></tr></tbody></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				RTA	xs:dateTime			optional		Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Requested Time Of Arrival of the target.							
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	Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Requested Time Of Arrival of the target.																																																											
Source	<pre><xs:element name="Waypoint" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Waypoint belonging to the route of this voyage</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="Pos" minOccurs="0"/> </xs:sequence> <xs:attribute name="ATA" type="xs:dateTime" use="optional"> <xs:annotation> <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Actual Time Of Arrival of the target.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="ETA" type="xs:dateTime" use="optional"> <xs:annotation> <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Expected Time Of Arrival of the target.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="RTA" type="xs:dateTime" use="optional"></pre>																																																											

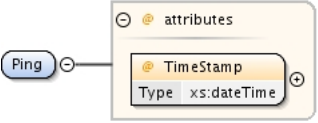
	<pre> <xs:annotation> <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Requested Time Of Arrival of the target.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="LoCode" use="optional"> <xs:annotation> <xs:documentation>Waypoint name in UN/LOCODE optionally addended with local location code (e.g. BEANR0170100497 = Antwerp, HANSADOK 497)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="5"/> <xs:maxLength value="15"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Name" use="required"> <xs:annotation> <xs:documentation>Name of the waypoint</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Element TaggedItem

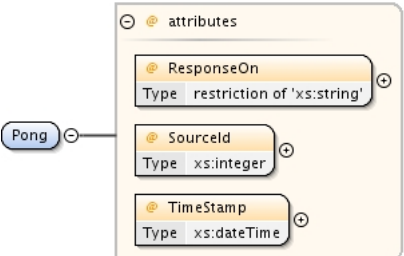
Namespace	http://www.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0				
Annotations	Generic key/value pairs, can be used to pass information that is not (yet) in the standard, provided server and user agree upon interface. E.g. Blue sign indication for inland waterways, references to voyage or vesseldata (URL)				
Diagram					
Properties	content:	complex			
Used by	Element	ObjectData			
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			
Source	<pre><xs:element name="TaggedItem"> <xs:annotation> <xs:documentation>Generic key/value pairs, can be used to pass information that is not (yet) in the standard, provided server and user agree upon interface. E.g. Blue sign indication for inland waterways, references to voyage or vesseldata (URL)</ xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="Key" use="required"> <xs:annotation> <xs:documentation>Key for the tagged item</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Value" use="required"></pre>				

	<pre> <xs:annotation> <xs:documentation>Value of the tagged item</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Element Ping

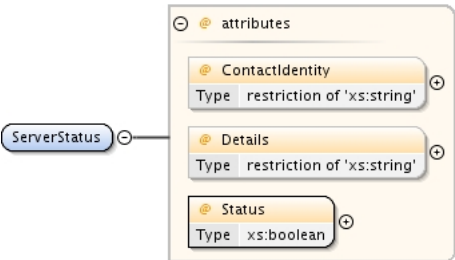
Namespace	http://www.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0				
Annotations	DATA alive message				
Diagram					
Properties	content:	complex			
Used by	Element	MSG_IVEF/Body			
Attributes	QName	Type	Fixed	Default	Use
	TimeStamp	xs:dateTime			required
	Date and time in (subset ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.				
Source	<pre> <xs:element name="Ping"> <xs:annotation> <xs:documentation>DATA alive message</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="TimeStamp" type="xs:dateTime" use="required"> <xs:documentation>Date and time in (subset ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.</xs:documentation> </xs:attribute> </xs:complexType> </xs:element> </pre>				
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.iala-to-be-confirmed.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.)				

	QName	Type	Fixed	Default	Use
	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.				
Source	<pre> <xs:element name="Pong"> <xs:annotation> <xs:documentation>DATA alive response</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="ResponseOn" use="required"> <xs:annotation> <xs:documentation>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.)</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="36"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="SourceId" type="xs:integer" use="required"> <xs:annotation> <xs:documentation>The identification of the node who created this message</ xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="TimeStamp" type="xs:dateTime" use="required"> <xs:annotation> <xs:documentation>Date and time in (subset of ISO 8601) UTC format (YYYY-MM- DDThh:mm:ss.sssZ) of the time this message is sent.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </pre>				
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.iala-to-be-confirmed.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
	ContactIdentity	restriction of xs:string			optional
	reference to the identity associated with this service				
	Details	restriction of xs:string			optional
	Details of status				
	Status	xs:boolean			required
	Status of the server (ok / not ok)				
Source	<pre> <xs:element name="ServerStatus"> <xs:annotation> <xs:documentation>DATA describing the status of the server (full/available)</ xs:documentation> </xs:annotation> </pre>				

	<pre> </xs:annotation> <xs:complexType> <xs:attribute name="ContactIdentity" use="optional"> <xs:annotation> <xs:documentation>reference to the identity associated with this service</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="254"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Details" use="optional"> <xs:annotation> <xs:documentation>Details of status</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="50"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Status" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Status of the server (ok / not ok)</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </pre>
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.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0
Annotations	DATA describing the service a user requests
Diagram	<pre> graph LR SR[ServiceRequest] --> A[Area 0..∞] SR --> T[Transmission 0..∞] SR --> I[Item 0..∞] SR --> O[Object 0..∞] </pre>
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 DataSelector="" FieldSelector="">{0,unbounded}</Item> <Object FilterName="">{0,unbounded}</Object> </ServiceRequest> </pre>
Source	<pre> <xs:element name="ServiceRequest"> <xs:annotation> <xs:documentation>DATA describing the service a user requests</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="Area" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="Transmission"> <xs:complexType> <xs:attribute name="Type" use="required"> <xs:annotation> <xs:documentation>Type of transmission, possible values are: 1 = single occurrence (whole image) 2 = periodic occurrence (predicted, whole image) 3 = a-periodic occurrence (synchronous, whenever an object is updated)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </pre>

	<pre> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Period" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>Specifies the time between two periodic updates in seconds</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> <xs:element name="Item" minOccurs="0" maxOccurs="unbounded"> <xs:complexType> <xs:attribute name="DataSelector" use="required"> <xs:annotation> <xs:documentation>Describes requested Object data element, possible values: 1 = TrackData 2 = VesselData 3 = VoyageData</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="FieldSelector" use="required"> <xs:annotation> <xs:documentation>Selected field. Can be 'all' or one of the items of object data TrackData, VesselData or VoyageData, to be changed into an enumeration of strings once these have been fixed</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> <xs:element name="Object" minOccurs="0" maxOccurs="unbounded"> <xs:complexType> <xs:attribute name="FilterName" use="required"> <xs:annotation> <xs:documentation>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</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </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.iala-to-be-confirmed.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			
Source	<pre><xs:element name="Area"> <xs:annotation> <xs:documentation>Geographical location based on one or more polygons</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="Pos" minOccurs="3" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="Name" use="optional"> <xs:annotation> <xs:documentation>Name of the area</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>				
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.iala-to-be-confirmed.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			
	Type	restriction of xs:integer			required
		Type of transmission, possible values are: 1 = single occurrence (whole image) 2 = periodic occurrence (predicted, whole image) 3 = a-periodic occurrence (synchronous, whenever an object is updated)			
Source	<pre><xs:element name="Transmission"> <xs:complexType> <xs:attribute name="Type" use="required"> <xs:annotation> <xs:documentation>Type of transmission, possible values are: 1 = single occurrence (whole image) 2 = periodic occurrence (predicted, whole image) 3 = a-periodic occurrence (synchronous, whenever an object is updated)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>				

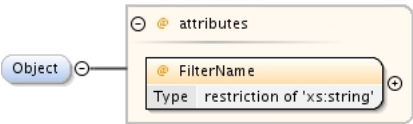
	<pre> <xs:attribute name="Period" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>Specifies the time between two periodic updates in seconds</ </xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Element ServiceRequest / Item

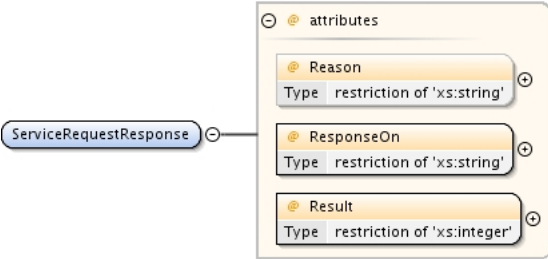
Namespace	http://www.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0																													
Diagram																														
Properties	<table><tr><td>content:</td><td>complex</td></tr><tr><td>minOccurs:</td><td>0</td></tr><tr><td>maxOccurs:</td><td>unbounded</td></tr></table>					content:	complex	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>DataSelector</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>FieldSelector</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, to be changed into an enumeration of strings once these have been fixed</td></tr></table>					QName	Type	Fixed	Default	Use	DataSelector	restriction of xs:integer			required		Describes requested Object data element, possible values: 1 = TrackData 2 = VesselData 3 = VoyageData				FieldSelector	restriction of xs:string			required		Selected field. Can be 'all' or one of the items of object data TrackData, VesselData or VoyageData, to be changed into an enumeration of strings once these have been fixed			
QName	Type	Fixed	Default	Use																										
DataSelector	restriction of xs:integer			required																										
	Describes requested Object data element, possible values: 1 = TrackData 2 = VesselData 3 = VoyageData																													
FieldSelector	restriction of xs:string			required																										
	Selected field. Can be 'all' or one of the items of object data TrackData, VesselData or VoyageData, to be changed into an enumeration of strings once these have been fixed																													
Source	<pre><xs:element name="Item" minOccurs="0" maxOccurs="unbounded"> <xs:complexType> <xs:attribute name="DataSelector" use="required"> <xs:annotation> <xs:documentation>Describes requested Object data element, possible values: 1 = TrackData 2 = VesselData 3 = VoyageData</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="FieldSelector" use="required"> <xs:annotation> <xs:documentation>Selected field. Can be 'all' or one of the items of object data TrackData, VesselData or VoyageData, to be changed into an enumeration of strings once these have been fixed</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>																													
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.iala-to-be-confirmed.org/XMLSchema/IVEF/0.2.0
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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 defined here in the future				
Source	<pre> <xs:element name="Object" minOccurs="0" maxOccurs="unbounded"> <xs:complexType> <xs:attribute name="FilterName" use="required"> <xs:annotation> <xs:documentation>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</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>				
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.iala-to-be-confirmed.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, when result is "Declined", or a string describing the restrictions when the result is "Accepted with restrictions"				
	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, 3 = Accepted with restrictions				
Source	<pre> <xs:element name="ServiceRequestResponse"> <xs:annotation> <xs:documentation>DATA detailing the suppliers response to the users service request</ xs:documentation> </pre>				

	<pre> </xs:annotation> <xs:complexType> <xs:attribute name="Reason" use="optional"> <xs:annotation> <xs:documentation>String describing reason for declining, when result is "Declined", or a string describing the restrictions when the result is "Accepted with restrictions"</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="ResponseOn" use="required"> <xs:annotation> <xs:documentation>Corresponds to the original MsgRefId from the ServiceRequest message. Must be an Universally Unique Identifier (TU-T Rec. X.667 ISO/IEC 9834-8.)</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="36"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="Result" use="required"> <xs:annotation> <xs:documentation>1 = Accepted, 2 = Declined, 3 = Accepted with restrictions</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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
Source	<pre> <xs:attribute name="MsgRefId" use="required"> <xs:annotation> <xs:documentation>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}</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="36"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

	<pre> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="Version" type="xs:string" use="required" fixed="0.2.0"> <xs:annotation> <xs:documentation>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</xs:documentation> </xs:annotation> </xs:attribute> </pre>
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 - 6 the 5 most common encryption 0 = custom
Type	restriction of xs:integer
Properties	use: required
Facets	enumeration 1
	enumeration 2
Used by	Element LoginRequest
Source	<pre> <xs:attribute name="Encryption" use="required"> <xs:annotation> <xs:documentation>1 = plain 2 - 6 the 5 most common encryption 0 = custom</ </xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Attribute LoginRequest / @Name

Namespace	No namespace
Annotations	Login name
Type	restriction of xs:string
Properties	use: required
Facets	maxLength 256
Used by	Element LoginRequest
Source	<pre> <xs:attribute name="Name" use="required"> <xs:annotation> <xs:documentation>Login name</xs:documentation> </xs:annotation> <xs:simpleType> </pre>

	<pre> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="Password" use="required"> <xs:annotation> <xs:documentation>Password value</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="Reason" use="optional"> <xs:annotation> <xs:documentation>String describing reason for declining, only used when result is "Declined"</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="ResponseOn" use="required"> <xs:annotation> </pre>

	<pre> <xs:documentation>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.)</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="36"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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	<table> <tr> <td>enumeration</td><td>1</td></tr> <tr> <td>enumeration</td><td>2</td></tr> </table>	enumeration	1	enumeration	2
enumeration	1				
enumeration	2				
Used by	Element LoginResponse				
Source	<pre> <xs:attribute name="Result" use="required"> <xs:annotation> <xs:documentation>1 = Accepted 2 = Declined</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>				
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
Source	<pre> <xs:attribute name="Altitude" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>The altitude of the target above the WGS-84 ellipsoid in meters</ xs:documentation> </xs:annotation> </xs:attribute> </pre>
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 standard deviation of the calculated position of a target expressed in m
Type	xs:decimal
Properties	use: optional
Used by	Element Pos
Source	<pre> <xs:attribute name="EstAccAlt" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>Estimated accuracy standard deviation of the calculated position of a target expressed in m</xs:documentation> </xs:annotation> </xs:attribute> </pre>

	<pre></xs:annotation> </xs:attribute></pre>
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 standard deviation of the calculated position of a target expressed in m
Type	xs:decimal
Properties	use: optional
Used by	Element Pos
Source	<pre><xs:attribute name="EstAccLat" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>Estimated accuracy standard deviation of the calculated position of a target expressed in m</xs:documentation> </xs:annotation> </xs:attribute></pre>
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 standard deviation of the calculated position of a target expressed in m
Type	xs:decimal
Properties	use: optional
Used by	Element Pos
Source	<pre><xs:attribute name="EstAccLong" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>Estimated accuracy standard deviation of the calculated position of a target expressed in m</xs:documentation> </xs:annotation> </xs:attribute></pre>
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	<p>Latitude (WGS84) in degrees. (+/- 90 degrees; North = positive; South = negative) Examples:</p> <p>-90deg (south) = -90.0000000 0deg0min1sec (north) = 0.0000016 50deg50min (north) = 50.8333333</p>						
Type	restriction of xs:decimal						
Properties	use: required						
Facets	<table> <tr> <td>fractionDigits</td><td>5</td></tr> <tr> <td>maxInclusive</td><td>+90.00000</td></tr> <tr> <td>minInclusive</td><td>-90.00000</td></tr> </table>	fractionDigits	5	maxInclusive	+90.00000	minInclusive	-90.00000
fractionDigits	5						
maxInclusive	+90.00000						
minInclusive	-90.00000						
Used by	Element Pos						
Source	<pre><xs:attribute name="Lat" use="required"> <xs:annotation> <xs:documentation>Latitude (WGS84) in degrees. (+/- 90 degrees; North = positive; South = negative) Examples: -90deg (south) = -90.0000000 0deg0min1sec (north) = 0.0000016 50deg50min (north) = 50.8333333</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="5"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>						

	<pre> <xs:minInclusive value="-90.00000"/> <xs:maxInclusive value="+90.00000"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="Long" use="required"> <xs:annotation> <xs:documentation>Longitude (WGS84) in degrees. (+/- 180 degrees; East = positive; West = negative). Examples: -180deg (west) = -180.0000000 0deg0min1sec (east) = 0.0000016</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="5"/> <xs:maxInclusive value="+180.00000"/> <xs:minExclusive value="-180.00000"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="COG" use="required"> <xs:annotation> <xs:documentation>Course over ground in degrees. (0-360)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="1"/> <xs:minInclusive value="0"/> <xs:maxInclusive value="360"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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
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Annotations	Estimated accuracy standard deviation of the calculated value expressed in m/s
Type	xs:decimal
Properties	use: optional
Used by	Element TrackData
Source	<pre><xs:attribute name="EstAccSOG" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>Estimated accuracy standard deviation of the calculated value expressed in m/s</xs:documentation> </xs:annotation> </xs:attribute></pre>
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 standard deviation of the calculated value expressed in degrees
Type	xs:decimal
Properties	use: optional
Used by	Element TrackData
Source	<pre><xs:attribute name="EstAccCOG" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>Estimated accuracy standard deviation of the calculated value expressed in degrees</xs:documentation> </xs:annotation> </xs:attribute></pre>
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
Source	<pre><xs:attribute name="Id" type="xs:integer" use="required"> <xs:annotation> <xs:documentation>The unique identification of this track. Valid from first message with TrackStatus!=Terminated to first message with TrackStatus=Terminated</ xs:documentation> </xs:annotation> </xs:attribute></pre>
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	Measured length of the target in meter
Type	restriction of xs:decimal
Properties	use: optional
Facets	minExclusive 0
Used by	Element TrackData
Source	<pre><xs:attribute name="Length" use="optional"> <xs:annotation> <xs:documentation>Measured length of the target in meter</xs:documentation></pre>

	<pre> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minExclusive value="0" /> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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	<p>Navigation status of the target</p> <p>0 = under way using engine</p> <p>1 = at anchor</p> <p>2 = not under command</p> <p>3 = restricted manoeuvrability</p> <p>4 = constrained by her draught</p> <p>5 = moored</p> <p>6 = aground</p> <p>7 = engaged in fishing</p> <p>8 = under way sailing</p> <p>15 = undefined default</p>																						
Type	restriction of xs:integer																						
Properties	use: optional																						
Facets	<table> <tr><td>enumeration</td><td>0</td></tr> <tr><td>enumeration</td><td>1</td></tr> <tr><td>enumeration</td><td>2</td></tr> <tr><td>enumeration</td><td>3</td></tr> <tr><td>enumeration</td><td>4</td></tr> <tr><td>enumeration</td><td>5</td></tr> <tr><td>enumeration</td><td>6</td></tr> <tr><td>enumeration</td><td>7</td></tr> <tr><td>enumeration</td><td>8</td></tr> <tr><td>enumeration</td><td>9</td></tr> <tr><td>enumeration</td><td>15</td></tr> </table>	enumeration	0	enumeration	1	enumeration	2	enumeration	3	enumeration	4	enumeration	5	enumeration	6	enumeration	7	enumeration	8	enumeration	9	enumeration	15
enumeration	0																						
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enumeration	4																						
enumeration	5																						
enumeration	6																						
enumeration	7																						
enumeration	8																						
enumeration	9																						
enumeration	15																						
Used by	<table> <tr> <td>Element</td><td>TrackData</td></tr> </table>	Element	TrackData																				
Element	TrackData																						
Source	<pre> <xs:attribute name="NavStatus" use="optional"> <xs:annotation> <xs:documentation>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</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="0" /> <xs:enumeration value="1" /> <xs:enumeration value="2" /> <xs:enumeration value="3" /> <xs:enumeration value="4" /> <xs:enumeration value="5" /> <xs:enumeration value="6" /> <xs:enumeration value="7" /> <xs:enumeration value="8" /> <xs:enumeration value="9" /> <xs:enumeration value="15" /> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>																						
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd																						

Attribute TrackData / @Heading

Namespace	No namespace
Annotations	Heading of the target in degrees

Type	restriction of xs:decimal	
Properties	use:	optional
Facets	maxInclusive	360.0
	minInclusive	0.0
Used by	Element	TrackData
Source	<pre><xs:attribute name="Heading" use="optional"> <xs:annotation> <xs:documentation>Heading of the target in degrees</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minInclusive value="0.0"/> <xs:maxInclusive value="360.0"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>	
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	restriction of xs:decimal	
Properties	use:	optional
Facets	fractionDigits	1
	minExclusive	-720
Used by	Element	TrackData
Source	<pre><xs:attribute name="ROT" use="optional"> <xs:annotation> <xs:documentation>Rate of turn in degrees per minute</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="1"/> <xs:minExclusive value="-720"/> <xs:minInclusive value="720"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>	
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
Source	<pre><xs:attribute name="SOG" use="required"> <xs:annotation> <xs:documentation>Speed over ground in meters per second</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="1"/> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>	
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
Source	<pre><xs:attribute name="SourceId" type="xs:integer" use="required"> <xs:annotation> <xs:documentation>The unique identification of the node who initially created this message</xs:documentation> </xs:annotation> </xs:attribute></pre>
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
Annotations	Identification of the originator of the data
Type	restriction of xs:string
Properties	use: required
Facets	minLength 1 maxLength 42
Used by	Element TrackData
Source	<pre><xs:attribute name="SourceName" use="required"> <xs:annotation> <xs:documentation>Identification of the originator of the data</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>
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
Source	<pre><xs:attribute name="UpdateTime" type="xs:dateTime" use="required"> <xs:annotation> <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mm:ss.sssZ) (subset of ISO 8601) this position was measured.</xs:documentation> </xs:annotation> </xs:attribute></pre>
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, (sensors are updating the track) 2 = Coasted, (no sensor is updating the track) 3 = Dropped
Type	restriction of xs:integer

Properties	use: required
Facets	enumeration 1
	enumeration 2
	enumeration 3
Used by	Element TrackData
Source	<pre><xs:attribute name="TrackStatus" use="required"> <xs:annotation> <xs:documentation>1 = Updated, (sensors are updating the track) 2 = Coasted, (no sensor is updating the track) 3 = Dropped</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>
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	Measured Width of the target in meter
Type	restriction of xs:decimal
Properties	use: optional
Facets	minExclusive 0
Used by	Element TrackData
Source	<pre><xs:attribute name="Width" use="optional"> <xs:annotation> <xs:documentation>Measured Width of the target in meter</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minExclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>
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
Source	<pre><xs:attribute name="CodeA" use="required"> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> <xs:maxInclusive value="138"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>
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 / @CodeB

Namespace	No namespace
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Type	restriction of xs:integer
Properties	use: required
Facets	maxInclusive 9
	minInclusive 0
Used by	Element VesselData/Construction/UnType
Source	<pre><xs:attribute name="CodeB" use="required"> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0" /> <xs:maxInclusive value="9" /> </xs:restriction> </xs:simpleType> </xs:attribute></pre>
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
Source	<pre><xs:attribute name="Mode" use="required"> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1" /> <xs:enumeration value="2" /> <xs:enumeration value="3" /> <xs:enumeration value="6" /> <xs:enumeration value="7" /> <xs:enumeration value="8" /> </xs:restriction> </xs:simpleType> </xs:attribute></pre>
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) for SAR operations
Type	restriction of xs:string
Properties	use: optional
Facets	minLength 6
	maxLength 6
Used by	Element VesselData/Construction
Source	<pre><xs:attribute name="HullColor" use="optional"> <xs:annotation> <xs:documentation>Color of Hull (in RGB hex) for SAR operations</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="6" /> <xs:maxLength value="6" /> </xs:restriction> </xs:simpleType></pre>

	<code></xs:attribute></code>
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	<table> <tr> <td>enumeration</td><td>1</td></tr> <tr> <td>enumeration</td><td>2</td></tr> <tr> <td>enumeration</td><td>3</td></tr> </table>	enumeration	1	enumeration	2	enumeration	3
enumeration	1						
enumeration	2						
enumeration	3						
Used by	Element VesselData/Construction						
Source	<pre><xs:attribute name="HullType" use="optional"> <xs:annotation> <xs:documentation>Type of hull (1 = single, 2 = double, 3 = triple)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>						
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 as confirmed by NCA		
Type	restriction of xs:decimal		
Properties	use: optional		
Facets	<table> <tr> <td>minExclusive</td><td>0</td></tr> </table>	minExclusive	0
minExclusive	0		
Used by	Element VesselData/Construction		
Source	<pre><xs:attribute name="Length" use="optional"> <xs:annotation> <xs:documentation>Length of the target in meter as confirmed by NCA</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minExclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd		

Attribute Construction / VesselData / @LloydsShipType

Namespace	No namespace
Annotations	Number indicating type of vessel
Type	xs:integer
Properties	use: optional
Used by	Element VesselData/Construction
Source	<pre><xs:attribute name="LloydsShipType" type="xs:integer" use="optional"> <xs:annotation> <xs:documentation>Number indicating type of vessel</xs:documentation> </xs:annotation> </xs:attribute></pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Attribute Construction / VesselData / @MaxKeelHeight

Namespace	No namespace
Annotations	Maximum height of the object, to be used if voyage data is not available
Type	restriction of xs:decimal
Properties	use: optional
Facets	fractionDigits 1
	minExclusive 0
Used by	Element VesselData/Construction
Source	<pre><xs:attribute name="MaxKeelHeight" use="optional"> <xs:annotation> <xs:documentation>Maximum height of the object, to be used if voyage data is not available</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="1"/> <xs:minExclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>
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, to be used if voyage data is not available
Type	restriction of xs:decimal
Properties	use: optional
Facets	fractionDigits 1
	minExclusive 0
Used by	Element VesselData/Construction
Source	<pre><xs:attribute name="MaxDraught" use="optional"> <xs:annotation> <xs:documentation>Maximum draught of the object in meters, to be used if voyage data is not available</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="1"/> <xs:minExclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>
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
Source	<pre><xs:attribute name="MaxPersonsOnBoard" use="optional"> <xs:annotation> <xs:documentation>The maximum number of persons on board of the object (crew, support, passengers, pilots)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"></pre>

	<pre> <xs:minExclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="MaxSpeed" use="optional"> <xs:annotation> <xs:documentation>The maximum speed the object is able to sustain with normal draft and load</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minExclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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 as confirmed by the NCA
Type	restriction of xs:decimal
Properties	use: optional
Facets	minExclusive 0
Used by	Element VesselData/Construction
Source	<pre> <xs:attribute name="Width" use="optional"> <xs:annotation> <xs:documentation>Width of the target in meter as confirmed by the NCA</ </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minExclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="Id" use="required"> <xs:annotation> <xs:documentation>Name of the Identifier</xs:documentation> </xs:annotation> </pre>

	<pre> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>42</td></tr> </table>	minLength	1	maxLength	42
minLength	1				
maxLength	42				
Used by	Element ForeignId				
Source	<pre> <xs:attribute name="Value" use="required"> <xs:annotation> <xs:documentation>Value of the identifier</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>				
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	<table> <tr> <td>minLength</td><td>2</td></tr> <tr> <td>maxLength</td><td>2</td></tr> </table>	minLength	2	maxLength	2
minLength	2				
maxLength	2				
Used by	Element ForeignName				
Source	<pre> <xs:attribute name="Lang" use="required"> <xs:annotation> <xs:documentation>Language (ISO 3166-1-alpha2)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="2"/> <xs:maxLength value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>				
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	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>42</td></tr> </table>	minLength	1	maxLength	42
minLength	1				
maxLength	42				

Used by	Element	ForeignName
Source	<pre><xs:attribute name="Name" use="required"> <xs:annotation> <xs:documentation>Name in the foreign language</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>	
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
Source	<pre><xs:attribute name="Callsign" use="optional"> <xs:annotation> <xs:documentation>Callsign of the target, in accordance with Article 19, Section III of the ITU Radio Regulations (RR)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="0"/> <xs:maxLength value="9"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>	
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
Source	<pre><xs:attribute name="IMO" type="xs:integer" use="optional"> <xs:annotation> <xs:documentation>IMO number of the target</xs:documentation> </xs:annotation> </xs:attribute></pre>	
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

Source	<pre> <xs:attribute name="Name" use="optional"> <xs:annotation> <xs:documentation>Name of the target</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="MMSI" type="xs:integer" use="optional"> <xs:annotation> <xs:documentation>MMSI number of the target</xs:documentation> </xs:annotation> </xs:attribute> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Attribute Identifier / VesselData / @LRIT

Namespace	No namespace				
Annotations	LRIT identification				
Type	restriction of xs:string				
Properties	use: optional				
Facets	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>42</td></tr> </table>	minLength	1	maxLength	42
minLength	1				
maxLength	42				
Used by	Element VesselData/Identifier				
Source	<pre> <xs:attribute name="LRIT" use="optional"> <xs:annotation> <xs:documentation>LRIT identification</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>				
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	<table> <tr> <td>enumeration</td><td>0</td></tr> <tr> <td>enumeration</td><td>1</td></tr> <tr> <td>enumeration</td><td>2</td></tr> </table>	enumeration	0	enumeration	1	enumeration	2
enumeration	0						
enumeration	1						
enumeration	2						
Used by	Element VesselData						

Source	<pre> <xs:attribute name="Class" use="optional"> <xs:annotation> <xs:documentation>0 = Unknown 1 = Vessel 2 = Aids to Navigate</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="0"/> <xs:enumeration value="1"/> <xs:enumeration value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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 by a NCA
Type	xs:boolean
Properties	use: optional
Used by	Element VesselData
Source	<pre> <xs:attribute name="BlackListed" type="xs:boolean" use="optional"> <xs:annotation> <xs:documentation>Vessel is blacklisted by a NCA</xs:documentation> </xs:annotation> </xs:attribute> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Attribute VesselData / @SpecialAttention

Namespace	No namespace
Annotations	Vessel is under special attention of the NCA or fairway authorities
Type	restriction of xs:string
Properties	use: optional
Facets	maxLength 20
Used by	Element VesselData
Source	<pre> <xs:attribute name="SpecialAttention" use="optional"> <xs:annotation> <xs:documentation>Vessel is under special attention of the NCA or fairway authorities</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="20"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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 vesseldata
Type	restriction of xs:string
Properties	use: required
Facets	maxLength 20
Used by	Element VesselData
Source	<pre> <xs:attribute name="Id" use="required"> <xs:annotation> <xs:documentation>The unique identification of this vesseldata</xs:documentation> </xs:annotation> <xs:simpleType> </pre>

	<pre> <xs:restriction base="xs:string"> <xs:maxLength value="20"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="SourceId" type="xs:integer" use="required"> <xs:annotation> <xs:documentation>The unique identification of the node who initially created this message</xs:documentation> </xs:annotation> </xs:attribute> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Attribute VesselData / @SourceName

Namespace	No namespace				
Annotations	Identification of the originator of the data				
Type	restriction of xs:string				
Properties	use: required				
Facets	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>42</td></tr> </table>	minLength	1	maxLength	42
minLength	1				
maxLength	42				
Used by	Element VesselData				
Source	<pre> <xs:attribute name="SourceName" use="required"> <xs:annotation> <xs:documentation>Identification of the originator of the data</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>				
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 4 = External source						
Type	restriction of xs:integer						
Properties	use: required						
Facets	<table> <tr> <td>enumeration</td><td>1</td></tr> <tr> <td>enumeration</td><td>2</td></tr> <tr> <td>enumeration</td><td>3</td></tr> </table>	enumeration	1	enumeration	2	enumeration	3
enumeration	1						
enumeration	2						
enumeration	3						
Used by	Element VesselData						
Source	<pre> <xs:attribute name="SourceType" use="required"> <xs:annotation> <xs:documentation>Source/originator type: 1 = AIS transponder 2 = VTS Plan Server 3 = Operator 4 = External source</xs:documentation> </xs:annotation> <xs:simpleType> </pre>						

	<pre> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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: required
Used by	Element VesselData
Source	<pre> <xs:attribute name="UpdateTime" type="xs:dateTime" use="required"> <xs:annotation> <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mm:ss.sssZ) (subset of ISO 8601) this data was compiled</xs:documentation> </xs:annotation> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="ATA" type="xs:dateTime" use="optional"> <xs:annotation> <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Actual Time Of Arrival of the target.</xs:documentation> </xs:annotation> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="ETA" type="xs:dateTime" use="optional"> <xs:annotation> <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Expected Time Of Arrival of the target.</xs:documentation> </xs:annotation> </xs:attribute> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Attribute Waypoint / VoyageData / @RTA

Namespace	No namespace
Annotations	Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Requested Time Of Arrival of the target.

Type	xs:dateTime
Properties	use: optional
Used by	Element VoyageData/Waypoint
Source	<pre><xs:attribute name="RTA" type="xs:dateTime" use="optional"> <xs:annotation> <xs:documentation>Date and time in UTC format (YYYY-MM-DDThh:mmZ) (subset of ISO 8601) of the Requested Time Of Arrival of the target.</xs:documentation> </xs:annotation> </xs:attribute></pre>
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	<table> <tr> <td>minLength</td><td>5</td></tr> <tr> <td>maxLength</td><td>15</td></tr> </table>	minLength	5	maxLength	15
minLength	5				
maxLength	15				
Used by	Element VoyageData/Waypoint				
Source	<pre><xs:attribute name="LoCode" use="optional"> <xs:annotation> <xs:documentation>Waypoint name in UN/LOCODE optionally addended with local location code (e.g. BEANR0170100497 = Antwerp, HANSADOK 497)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="5"/> <xs:maxLength value="15"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>				
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	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>42</td></tr> </table>	minLength	1	maxLength	42
minLength	1				
maxLength	42				
Used by	Element VoyageData/Waypoint				
Source	<pre><xs:attribute name="Name" use="required"> <xs:annotation> <xs:documentation>Name of the waypoint</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>				
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 2
	minExclusive 0
Used by	Element VoyageData
Source	<pre> <xs:attribute name="AirDraught" use="optional"> <xs:annotation> <xs:documentation>Actual air draught of the vessel in meters</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="2"/> <xs:minExclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="Id" use="required"> <xs:annotation> <xs:documentation>The identification of this voyage</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="20"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Attribute VoyageData / @CargoTypeIMO

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
Source	<pre> <xs:attribute name="CargoTypeIMO" use="optional"> <xs:annotation> <xs:documentation>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, </pre>

	<pre> IMO hazard or pollutant category D 5 = Carrying DG, HS, or MP, IMO hazard or pollutant of unknown category</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="0"/> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> <xs:enumeration value="4"/> <xs:enumeration value="5"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Attribute VoyageData / @ContactIdentity

Namespace	No namespace				
Annotations	reference to the identity associated with this objects voyage				
Type	restriction of xs:string				
Properties	use: optional				
Facets	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>254</td></tr> </table>	minLength	1	maxLength	254
minLength	1				
maxLength	254				
Used by	Element VoyageData				
Source	<pre> <xs:attribute name="ContactIdentity" use="optional"> <xs:annotation> <xs:documentation>reference to the identity associated with this objects voyage</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="254"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>				
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	<table> <tr> <td>minLength</td><td>5</td></tr> <tr> <td>maxLength</td><td>15</td></tr> </table>	minLength	5	maxLength	15
minLength	5				
maxLength	15				
Used by	Element VoyageData				
Source	<pre> <xs:attribute name="DestCode" use="optional"> <xs:annotation> <xs:documentation>Destination of the target (UN/LOCODE) optionally addended with local location code (e.g. BEANR0170100497 = Antwerp, HANSADOK 497)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="5"/> <xs:maxLength value="15"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>				
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
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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
Source	<pre><xs:attribute name="DestName" use="optional"> <xs:annotation> <xs:documentation>Destination name of the target e.g. local code for berth/lock/ bridge/terminal</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1" /> <xs:maxLength value="42" /> </xs:restriction> </xs:simpleType> </xs:attribute></pre>	
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	2
	minExclusive	0
Used by	Element	VoyageData
Source	<pre><xs:attribute name="Draught" use="optional"> <xs:annotation> <xs:documentation>Actual draught of the vessel in meters</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="2" /> <xs:minExclusive value="0" /> </xs:restriction> </xs:simpleType> </xs:attribute></pre>	
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
Source	<pre><xs:attribute name="ETA" type="xs:dateTime" use="optional"> <xs:annotation> <xs:documentation>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</ xs:documentation> </xs:annotation> </xs:attribute></pre>	
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	
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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
Source	<pre> <xs:attribute name="ISPSLevel" use="optional"> <xs:annotation> <xs:documentation>The ISPS level of the object (1 = normal, 2 = heightened, 3 = exceptional)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Attribute VoyageData / @OverSizedLength

Namespace	No namespace
Annotations	Length of the target in meter as confirmed by NCA, in case of a convoy of barges
Type	restriction of xs:decimal
Properties	use: optional
Facets	fractionDigits 1
	minExclusive 0
Used by	Element VoyageData
Source	<pre> <xs:attribute name="OverSizedLength" use="optional"> <xs:annotation> <xs:documentation>Length of the target in meter as confirmed by NCA, in case of a convoy of barges</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:fractionDigits value="1"/> <xs:minExclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Attribute VoyageData / @OverSizedWidth

Namespace	No namespace
Annotations	Width of the target in meter as confirmed by the NCA, in case of a convoy of barges
Type	restriction of xs:decimal
Properties	use: optional
Facets	fractionDigits 1
	minExclusive 0
Used by	Element VoyageData
Source	<pre> <xs:attribute name="OverSizedWidth" use="optional"> <xs:annotation> <xs:documentation>Width of the target in meter as confirmed by the NCA, in case of a convoy of barges</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> </pre>

	<pre> <xs:fractionDigits value="1"/> <xs:minExclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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				
Annotations	Next port of the target (UN/LOCODE)				
Type	restriction of xs:string				
Properties	use: optional				
Facets	<table> <tr> <td>minLength</td><td>5</td></tr> <tr> <td>maxLength</td><td>5</td></tr> </table>	minLength	5	maxLength	5
minLength	5				
maxLength	5				
Used by	Element VoyageData				
Source	<pre> <xs:attribute name="NextPort" use="optional"> <xs:annotation> <xs:documentation>Next port of the target (UN/LOCODE)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="5"/> <xs:maxLength value="5"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>				
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	<table> <tr> <td>minExclusive</td><td>0</td></tr> </table>	minExclusive	0
minExclusive	0		
Used by	Element VoyageData		
Source	<pre> <xs:attribute name="PersonsOnBoard" use="optional"> <xs:annotation> <xs:documentation>The number of persons on board of the object, should equal the sum of crew, passengers and support personel if available</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minExclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		
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	Pilot status 0 = unknown 1 = pilot on board 2 = object under remote pilotage 3 = pilot required		
Type	restriction of xs:decimal		
Properties	use: optional		
Facets	<table> <tr> <td>minExclusive</td><td>0</td></tr> </table>	minExclusive	0
minExclusive	0		

Used by	Element VoyageData
Source	<pre> <xs:attribute name="Pilots" use="optional"> <xs:annotation> <xs:documentation>Pilot status 0 = unknown 1 = pilot on board 2 = object under remote pilotage 3 = pilot required</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minExclusive value="0" /> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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	<table> <tr> <td>minLength</td><td>5</td></tr> <tr> <td>maxLength</td><td>5</td></tr> </table>	minLength	5	maxLength	5
minLength	5				
maxLength	5				
Used by	Element VoyageData				
Source	<pre> <xs:attribute name="PrevPort" use="optional"> <xs:annotation> <xs:documentation>Previous port of the target (UN/LOCODE)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="5" /> <xs:maxLength value="5" /> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>				
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
Source	<pre> <xs:attribute name="RouteBound" type="xs:boolean" use="optional"> <xs:annotation> <xs:documentation>This object is bound to the route of this voyage</xs:documentation> </xs:annotation> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="SourceId" type="xs:integer" use="required"> <xs:annotation> <xs:documentation>The unique identification of the node who initially created this message</xs:documentation> </xs:annotation> </xs:attribute> </pre>

	<pre></xs:annotation> </xs:attribute></pre>
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: required				
Facets	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>42</td></tr> </table>	minLength	1	maxLength	42
minLength	1				
maxLength	42				
Used by	Element VoyageData				
Source	<pre><xs:attribute name="SourceName" use="required"> <xs:annotation> <xs:documentation>Identification of the originator of this data</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>				
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 = fused, 5 = unknown										
Type	restriction of xs:integer										
Properties	use: required										
Facets	<table> <tr> <td>enumeration</td><td>1</td></tr> <tr> <td>enumeration</td><td>2</td></tr> <tr> <td>enumeration</td><td>3</td></tr> <tr> <td>enumeration</td><td>4</td></tr> <tr> <td>enumeration</td><td>5</td></tr> </table>	enumeration	1	enumeration	2	enumeration	3	enumeration	4	enumeration	5
enumeration	1										
enumeration	2										
enumeration	3										
enumeration	4										
enumeration	5										
Used by	Element VoyageData										
Source	<pre><xs:attribute name="SourceType" use="required"> <xs:annotation> <xs:documentation>Source/originator type: 1 = transponder, 2 = database, 3 = manual, 4 = fused, 5 = unknown</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> <xs:enumeration value="4"/> <xs:enumeration value="5"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>										
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd										

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
Used by	Element VoyageData
Source	<pre> <xs:attribute name="TankerStatus" use="optional"> <xs:annotation> <xs:documentation>Describes the status of the tanker 0 = Non gas free 1 = Gas free 2 = Inert</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="0"/> <xs:enumeration value="1"/> <xs:enumeration value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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	Object uses tugs
Type	xs:boolean
Properties	use: optional
Used by	Element VoyageData
Source	<pre> <xs:attribute name="Tugs" use="optional" type="xs:boolean"> <xs:annotation> <xs:documentation>Object uses tugs</xs:documentation> </xs:annotation> </xs:attribute> </pre>
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: required
Used by	Element VoyageData
Source	<pre> <xs:attribute name="UpdateTime" type="xs:dateTime" use="required"> <xs:annotation> <xs:documentation>Date and time in (subset of ISO 8601) UTC format (YYYY-MM- DDThh:mm:ss.sssZ) this data was compiled</xs:documentation> </xs:annotation> </xs:attribute> </pre>
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
Source	<pre> <xs:attribute name="Key" use="required"> <xs:annotation> <xs:documentation>Key for the tagged item</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>42</td></tr> </table>	minLength	1	maxLength	42
minLength	1				
maxLength	42				
Used by	Element TaggedItem				
Source	<pre> <xs:attribute name="Value" use="required"> <xs:annotation> <xs:documentation>Value of the tagged item</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>				
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	<p>Must be an Universally Unique Identifier for each object(TU-T Rec. X.667 ISO/IEC 9834-8.). 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}</p> <p>line up with UMDM object identification</p>				
Type	restriction of xs:string				
Properties	use: required				
Facets	<table> <tr> <td>minLength</td><td>36</td></tr> <tr> <td>maxLength</td><td>42</td></tr> </table>	minLength	36	maxLength	42
minLength	36				
maxLength	42				
Used by	Element ObjectData				
Source	<pre> <xs:attribute name="Id" use="required"> <xs:annotation> <xs:documentation>Must be an Universally Unique Identifier for each object(TU-T Rec. X.667 ISO/IEC 9834-8.). 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} line up with UMDM object identification</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="36"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>				

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 Ping / @TimeStamp

Namespace	No namespace
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
Source	<pre><xs:attribute name="TimeStamp" type="xs:dateTime" use="required"> <xs:annotation> <xs:documentation>Date and time in (subset ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.</xs:documentation> </xs:annotation> </xs:attribute></pre>
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
Source	<pre><xs:attribute name="ResponseOn" use="required"> <xs:annotation> <xs:documentation>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.)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="36"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>
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
Source	<pre><xs:attribute name="SourceId" type="xs:integer" use="required"> <xs:annotation> <xs:documentation>The identification of the node who created this message</xs:documentation> </xs:annotation> </xs:attribute></pre>
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
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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
Source	<pre><xs:attribute name="TimeStamp" type="xs:dateTime" use="required"> <xs:annotation> <xs:documentation>Date and time in (subset of ISO 8601) UTC format (YYYY-MM-DDThh:mm:ss.sssZ) of the time this message is sent.</xs:documentation> </xs:annotation> </xs:attribute></pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Attribute ServerStatus / @ContactIdentity

Namespace	No namespace				
Annotations	reference to the identity associated with this service				
Type	restriction of xs:string				
Properties	use: optional				
Facets	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>254</td></tr> </table>	minLength	1	maxLength	254
minLength	1				
maxLength	254				
Used by	Element ServerStatus				
Source	<pre><xs:attribute name="ContactIdentity" use="optional"> <xs:annotation> <xs:documentation>reference to the identity associated with this service</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="254"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>				
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	<table> <tr> <td>maxLength</td><td>50</td></tr> </table>	maxLength	50
maxLength	50		
Used by	Element ServerStatus		
Source	<pre><xs:attribute name="Details" use="optional"> <xs:annotation> <xs:documentation>Details of status</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="50"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		
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 (ok / not ok)
Type	xs:boolean

Properties	use: required
Used by	Element ServerStatus
Source	<pre><xs:attribute name="Status" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Status of the server (ok / not ok)</xs:documentation> </xs:annotation> </xs:attribute></pre>
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
Source	<pre><xs:attribute name="Name" use="optional"> <xs:annotation> <xs:documentation>Name of the area</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>
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 (whole image) 2 = periodic occurrence (predicted, whole image) 3 = a-periodic occurrence (synchronous, whenever an object is updated)
Type	restriction of xs:integer
Properties	use: required
Facets	enumeration 1
	enumeration 2
	enumeration 3
Used by	Element ServiceRequest/Transmission
Source	<pre><xs:attribute name="Type" use="required"> <xs:annotation> <xs:documentation>Type of transmission, possible values are: 1 = single occurrence (whole image) 2 = periodic occurrence (predicted, whole image) 3 = a-periodic occurrence (synchronous, whenever an object is updated)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>
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
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Annotations	Specifies the time between two periodic updates in seconds
Type	xs:decimal
Properties	use: optional
Used by	Element ServiceRequest/Transmission
Source	<pre><xs:attribute name="Period" type="xs:decimal" use="optional"> <xs:annotation> <xs:documentation>Specifies the time between two periodic updates in seconds</ </xs:documentation> </xs:annotation> </xs:attribute></pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd

Attribute Item / ServiceRequest / @DataSelector

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	<table> <tr> <td>enumeration</td><td>1</td></tr> <tr> <td>enumeration</td><td>2</td></tr> <tr> <td>enumeration</td><td>3</td></tr> </table>	enumeration	1	enumeration	2	enumeration	3
enumeration	1						
enumeration	2						
enumeration	3						
Used by	Element ServiceRequest/Item						
Source	<pre><xs:attribute name="DataSelector" use="required"> <xs:annotation> <xs:documentation>Describes requested Object data element, possible values: 1 = TrackData 2 = VesselData 3 = VoyageData</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>						
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd						

Attribute Item / ServiceRequest / @FieldSelector

Namespace	No namespace				
Annotations	Selected field. Can be 'all' or one of the items of object data TrackData, VesselData or VoyageData, to be changed into an enumeration of strings once these have been fixed				
Type	restriction of xs:string				
Properties	use: required				
Facets	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>42</td></tr> </table>	minLength	1	maxLength	42
minLength	1				
maxLength	42				
Used by	Element ServiceRequest/Item				
Source	<pre><xs:attribute name="FieldSelector" use="required"> <xs:annotation> <xs:documentation>Selected field. Can be 'all' or one of the items of object data TrackData, VesselData or VoyageData, to be changed into an enumeration of strings once these have been fixed</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>				

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 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	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>42</td></tr> </table>	minLength	1	maxLength	42
minLength	1				
maxLength	42				
Used by	Element ServiceRequest/Object				
Source	<pre><xs:attribute name="FilterName" use="required"> <xs:annotation> <xs:documentation>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</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>				
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, when result is "Declined", or a string describing the restrictions when the result is "Accepted with restrictions"		
Type	restriction of xs:string		
Properties	use: optional		
Facets	<table> <tr> <td>maxLength</td><td>256</td></tr> </table>	maxLength	256
maxLength	256		
Used by	Element ServiceRequestResponse		
Source	<pre><xs:attribute name="Reason" use="optional"> <xs:annotation> <xs:documentation>String describing reason for declining, when result is "Declined", or a string describing the restrictions when the result is "Accepted with restrictions"</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		
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	<table> <tr> <td>minLength</td><td>36</td></tr> <tr> <td>maxLength</td><td>42</td></tr> </table>	minLength	36	maxLength	42
minLength	36				
maxLength	42				
Used by	Element ServiceRequestResponse				
Source	<pre><xs:attribute name="ResponseOn" use="required"></pre>				

	<pre> <xs:annotation> <xs:documentation>Corresponds to the original MsgRefId from the ServiceRequest message. Must be an Universally Unique Identifier (TU-T Rec. X.667 ISO/IEC 9834-8.)</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="36"/> <xs:maxLength value="42"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
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, 3 = Accepted with restrictions
Type	restriction of xs:integer
Properties	use: required
Facets	enumeration 1
	enumeration 2
	enumeration 3
Used by	Element ServiceRequestResponse
Source	<pre> <xs:attribute name="Result" use="required"> <xs:annotation> <xs:documentation>1 = Accepted, 2 = Declined, 3 = Accepted with restrictions</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"/> <xs:enumeration value="2"/> <xs:enumeration value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>
Schema location	file:/home/chris/Documents/ivef-sdk/ivef-def/branches/IVEF_1_0_0_DEV/IVEF-WG/ivef0_2.xsd