

# INTTRA eVGM Service From Submitter to INTTRA

February 1,  
2017

Implementation Guide for:  
**VGM (Verified Gross Mass) XML**

User Guide  
Version 0.8.2  
with UCA



# Table of Contents

<b>I. AUDIENCE .....</b>	<b>3</b>
<b>II. GENERAL DATA FORMAT CONVENTIONS .....</b>	<b>4</b>
A. CHARACTER SET SUPPORT .....	4
B. NUMERIC CONVENTIONS.....	4
C. EMAIL FORMAT CONVENTIONS.....	4
D. DATE FORMAT CONVENTIONS .....	4
<b>III. STANDARDS CODE LISTS, MASTER DATA CATALOGUES .....</b>	<b>5</b>
A. ISO COUNTRY CODES.....	5
B. ISO CONTAINER CODES .....	5
C. CODED PARTIES .....	5
<b>IV. MESSAGE USAGE SUMMARY .....</b>	<b>6</b>
A. VGM DETERMINATION METHODS.....	6
B. KEY VALIDATIONS AND BUSINESS RULES .....	6
<b>V. STATE TRANSITION .....</b>	<b>7</b>
<b>VI. MESSAGE FLOW .....</b>	<b>8</b>
<b>VII. VGM XML MESSAGE REVISION HISTORY .....</b>	<b>9</b>
A. CHANGES FROM VERSION 0.8.1 (JANUARY 13, 2017) TO VERSION 0.8.2 (FEBRUARY 1, 2017) .....	9
B. CHANGES FROM VERSION 0.8 (JUNE 9, 2016) TO VERSION 0.8.1 (JANUARY 13, 2017).....	9
<b>VIII. VGM XML MESSAGE SPECIFICATION.....</b>	<b>10</b>
<b>IX. APPENDIX 1 - VGM USE CASES .....</b>	<b>29</b>
A. USE CASE 1: DIRECT VGM SUBMISSION – SINGLE CONTAINER .....	29
B. USE CASE 2: DELEGATED VGM SUBMISSION TO CARRIER .....	31
C. USE CASE 3: 3 <sup>RD</sup> PARTY PARTICIPANT VGM SUBMISSION .....	33
D. USE CASE 4: HYBRID VGM SUBMISSION .....	34
E. USE CASE 5: VGM SUBMISSION FOR SHIPPER OWNED CONTAINERS.....	36
F. USE CASE 6: VGM DETERMINATION METHOD PROVISION .....	38
G. USE CASE 7: VGM DETERMINATION METHOD AND METHOD AUTHORIZATION.....	40
H. USE CASE 8: DIRECT VGM SUBMISSION TO TERMINAL.....	42
I. USE CASE 9: DELEGATED VGM SUBMISSION TO TERMINAL .....	44
<b>X. XML GUIDELINES .....</b>	<b>46</b>
A. NAMESPACE DEFINITION IN VGM XML.....	46

## **I. Audience**

This document is intended for business and technical personnel engaged in establishing an electronic connection with INTTRA for the purpose of exchanging container Verified Gross Mass transaction messages through INTTRA via INTTRA's version of VGM XML Version 0.8.

The following sections provide details regarding general conventions, message flow, message specifications, and message samples, to facilitate effective and efficient use of INTTRA's business transaction sets.

## II. General Data Format Conventions

### A. Character Set Support

The character set supported by INTTRA is the UNOC UN/ECE level C, as defined in ISO-8859-1 character set (Hex 0x01 to 0xFF). Certain control characters should be avoided to ensure timely processing.

The following subset of control characters may be deleted by INTTRA in the inbound message from the Customer, to allow accurate processing by INTTRA and the carriers:

- Hex 0x01 through Hex 0x1F, **excluding Hex 0x0A (line feed) and 0x0D (carriage return)**.
- Hex 0x7F
- Hex 0x80 through Hex 0x9F

While presence of these characters will not cause inbound messages to fail, the message will be stripped of these characters before storing or sending to carriers.

Characters outside of the range of Hex 0x01 to 0xFF are not supported by INTTRA and should not be sent. Character entities (Ex. &#39;) should not be used. Inbound Customer transactions containing these values will be failed. General entities (Ex. &amp;) are acceptable by INTTRA.

### B. Numeric Conventions

#### 1. General numeric conventions for decimal values

- Decimal must be represented using the dot ('.') e.g., 10455.12 or 45.8735
- Group separators must not be sent. e.g., 10,455.125 is invalid

The applicable precision varies by type of numeric data and is defined for each relevant element.

#### 2. Numeric elements representing counts must be supplied as whole numbers without group separators.

### C. Email Format Conventions

INTTRA checks email addresses for format validity, using the following rules:

- Minimum length is 6 characters (Example: a@b.cd)
- Only one @ sign
- At least one dot ('.') after @ with at least one character in between
- Must have at least 2 characters after the last dot
- Allowed characters:
  - INTTRA supports
  - ASCII characters, hash sign “#”, apostrophe “'”,
  - Digits
  - \_, -, @, .
- Disallowed characters:
  - All others not mentioned including , ; “ ‘ / \, etc.

### D. Date Format Conventions

1. INTTRA’s implementation includes date fields of data type <xs:datetime>. Date and Time are represented in ‘YYYY-MM-DDThh:mm:ss’ format.
2. The time component is assumed to be in 24 hour format. Seconds will not be transmitted to VGM Recipients.
3. Unless explicitly stated in the IG to be considered as GMT/UTC, date/time values are considered to be local at the point of activity.

### **III. Standards Code Lists, Master Data Catalogues**

The following code lists are used by INTTRA to validate specific elements in the VGM XML message. These validations are strictly applied, and any coded values sent must conform to the published code lists maintained at INTTRA. Contact your INTTRA Project Manager (IPM) for the current code lists supported by INTTRA.

#### **A. ISO Country Codes**

INTTRA uses 2-character ISO Country code (ISO 3166 2A) lists to validate country codes in the message set.

#### **B. ISO Container Codes**

INTTRA supports a specific list of ISO Container codes. INTTRA stores Container codes as received on the inbound transactions.

#### **C. Coded Parties**

INTTRA recommends that parties in incoming transactions be identified by one of the following identity coding conventions.

1. INTTRA company ID; must be a valid INTTRA-assigned company ID and indicates a company registered with INTTRA.
2. Partner Alias registered by the Submitter, must resolve to a valid INTTRA-assigned company ID and indicates a company registered with INTTRA.

In outbound transactions, recipient alias will be supplied for registered parties for which the recipient has established aliases. When there is no recipient alias, the INTTRA ID will be supplied for registered parties.

When parties are provided, INTTRA recommends that submitters provide ISO Country code, State Code and Postal Code in structured fields, in addition to the full name and address, as this will further reduce ambiguity in party identification.

Any party literals provided in an inbound message will be sent to outbound recipients.

## **IV. Message Usage Summary**

### **A. VGM Determination methods**

The SOLAS regulations define two methods by which the shipper may obtain the verified gross mass of a packed container (SOLAS Regulations 2 Chapter VI §§ 4-6):

Method No.1: Upon the conclusion of packing and sealing a container, the shipper may weigh, or have arranged that a third party weighs, the packed container.

Method No.2: The shipper (*or, by arrangement of the shipper, a third party*), may weigh all packages and cargo items, including the mass of pallets, dunnage and other packing and securing material to be packed in the container, and add the tare mass of the container to the sum of the single masses using a certified method as described in paragraphs 5.1.2.3 and 5.1.2.3.1. Any third party that has performed some or all of the packing of the container should inform the shipper of the mass of the cargo items and packing and securing material that the party has packed into the container in order to facilitate the shipper's verification of the gross mass of the packed container under Method No.2. As required by SOLAS VI/2 and paragraph 5, the shipper should ensure that the verified gross mass of the container is provided sufficiently in advance of vessel loading. How such information is to be communicated between the shipper and any third party should be agreed between the commercial parties involved.

### **B. Key Validations and Business Rules**

A VGM transaction is unique by the combination of Submitter, Submitter's Reference and Container Number. A VGM transaction is also unique by the INTTRA eVGM ID. Either set of unique identifiers may be used to amend, or cancel a VGM transaction.

Attempts to Submit an Original VGM that already exists will be rejected. A VGM transaction may be validated regardless of its state at INTTRA.

A VGM transaction is limited to 1 container.

Reference Numbers (Submitters Reference, Booking Number, BL Number, Shippers Reference, etc.) cannot be longer than 70 bytes. Only one occurrence of each reference type may be provided.

Submitter Party must be provided. Submitters must be registered with INTTRA and have active INTTRA Company ID's. Submitters must be enrolled for eVGM.

At least one of Shipper, Forwarder, Carrier must be provided and must be an INTTRA registered party identified by an INTTRA Assigned Company ID. Partners with Sponsor ID's or Submitters with INTTRA Company ID's may register aliases for Companies with INTTRA.

## V. State Transition

		PROPOSED STATE		
		ORIGINAL	AMEND	CANCEL
EXISTING STATE	NONE	✓	✓*	✗
	ORIGINAL	✗	✓	✓
	AMENDED	✗	✓	✓
	CANCELLED	✓**	✗	Ignored

Legends used in the table above:

State Transition:

Allowed State Transition: ✓

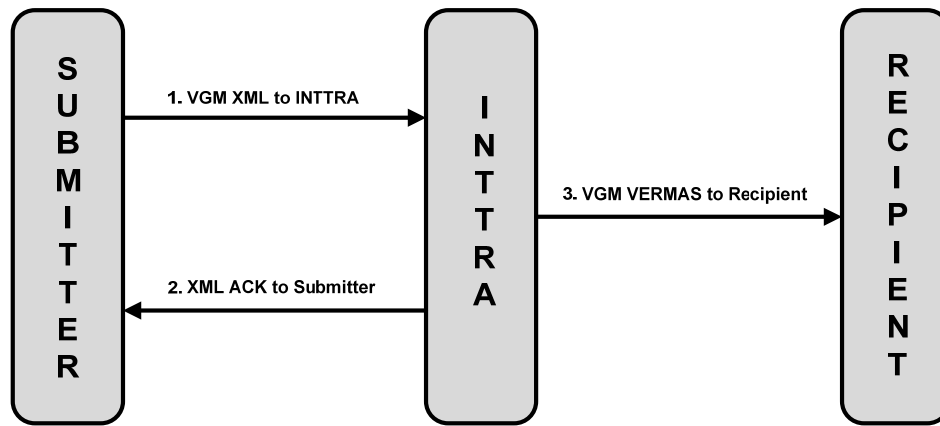
INTTRA will process Amend as Original if Original does not exist: ✓\*

INTTRA will create a new VGM and issue a new eVGM ID. The existing Cancelled VGM is not reactivated ✓\*\*

Not Allowed State Transition: ✗

Ignored State Transition: Ignored

## VI. Message Flow



1. Submitter sends to INTTRA a VGM XML transaction per INTTRA Message Specification via communication methods detailed in the INTTRA Connectivity Guide.
2. INTTRA system issues a XML Acknowledgment transaction to the Submitter (if requested).
3. INTTRA's proprietary Portal Application performs message and content validation and then issues the VGM to the Recipient via INTTRA VERMAS message.



## **VII. VGM XML Message Revision History**

### **A. Changes from version 0.8.1 (January 13, 2017) to version 0.8.2 (February 1, 2017)**

Added NotificationContact to Submitter party.

Added the following notes to the NotificationContact “Success” and “Error” notifications will be sent to “Submitter” notification email addresses.

For all other parties only “Success” (not Error) notifications will be sent to notification email addresses.

Added “MessageRecipient” party type

### **B. Changes from version 0.8 (June 9, 2016) to version 0.8.1 (January 13, 2017)**

Added State Transition table

Party NotificationContact added note ” Only "Success" (not Error) notifications will be sent to NotificationContact email addresses.”

## VIII. VGM XML Message Specification



element	<b>SubmitVGM</b>								
properties	min use	1	max use	1	min size		max size		type
description	Root element for XML message to submit VGM.								
Annotation	Note that the encoding will be set to ISO-8859-1 which is the character set supported by INTTRA.								

element	<b>MessageGuid</b>	min use	1	max use	1
element	<b>MessageDateTime</b>	min use	1	max use	1
element	<b>MessageVersion</b>	min use	1	max use	1
element	<b>TenantID</b>	min use	0	max use	1
element	<b>SponsorID</b>	min use	0	max use	1
element	<b>INTTRAEVGMID</b>	min use	0	max use	1
element	<b>State</b>	min use	1	max use	1
element	<b>Submitter</b>	min use	1	max use	1
element	<b>SubmitterReference</b>	min use	1	max use	1
element	<b>ContainerNumber</b>	min use	1	max use	1
element	<b>VerifiedGrossMass</b>	min use	1	max use	1
element	<b>VerificationDetails</b>	min use	0	max use	1
element	<b>VGMDeterminationDateTime</b>	min use	0	max use	1
element	<b>VGMDeterminationLocation</b>	min use	0	max use	1
element	<b>VGMDeterminationMethod</b>	min use	0	max use	1
element	<b>Certificates</b>	min use	0	max use	3
element	<b>Method2Weights</b>	min use	0	max use	3
element	<b>ResponsibleParty</b>	min use	0	max use	1
element	<b>AuthorizedParty</b>	min use	0	max use	1
element	<b>WeighingParty</b>	min use	0	max use	1
element	<b>Carrier</b>	min use	0	max use	1
element	<b>Shipper</b>	min use	0	max use	1
element	<b>Forwarder</b>	min use	0	max use	1
element	<b>Terminal</b>	min use	0	max use	1
element	<b>MessageRecipient</b>	min use	0	max use	1
element	<b>BookingNumber</b>	min use	0	max use	1
element	<b>BillOfLadingNumber</b>	min use	0	max use	1
element	<b>ForwardersReferenceNumber</b>	min use	0	max use	1
element	<b>ShippersReferenceNumber</b>	min use	0	max use	1

element	<b>ContainerDetails</b>	min use	0	max use	1
---------	-------------------------	---------	---	---------	---



Element	<b>MessageGuid</b>									
Properties	min use	1	max use	1	min size		max size		type	string
Description	Unique Identifier for the message									
Annotation										
attributes	name		type		max size		use		enumeration	Annotations

element	<b>MessageDateTime</b>									
properties	min use	1	max use	1	min size		max size		type	datetime
description	Date time when the message was created.									
Annotation	Time is assumed to be UTC/GMT. Format: YYYY-MM-DDTHH:MM:SS Example: 2017-03-31T09:30:00									
attributes	name		type		max size		use		enumeration	Annotations

element	<b>MessageVersion</b>									
properties	min use	1	max use	1	min size		max size		type	string
description	Version of the Schema/IG.									
Annotation	Defaulted to 0.8									
attributes	name		type		max size		use		enumeration	Annotations
							0.8			

element	<b>TenantID</b>									
properties	min use	0	max use	1	min size		max size		type	string
description	Tenant under which transaction is submitted and managed. Default Tenant is INTTRA.									
Annotation										
attributes	name		type		max size		use		enumeration	Annotations

--	--	--	--	--	--	--

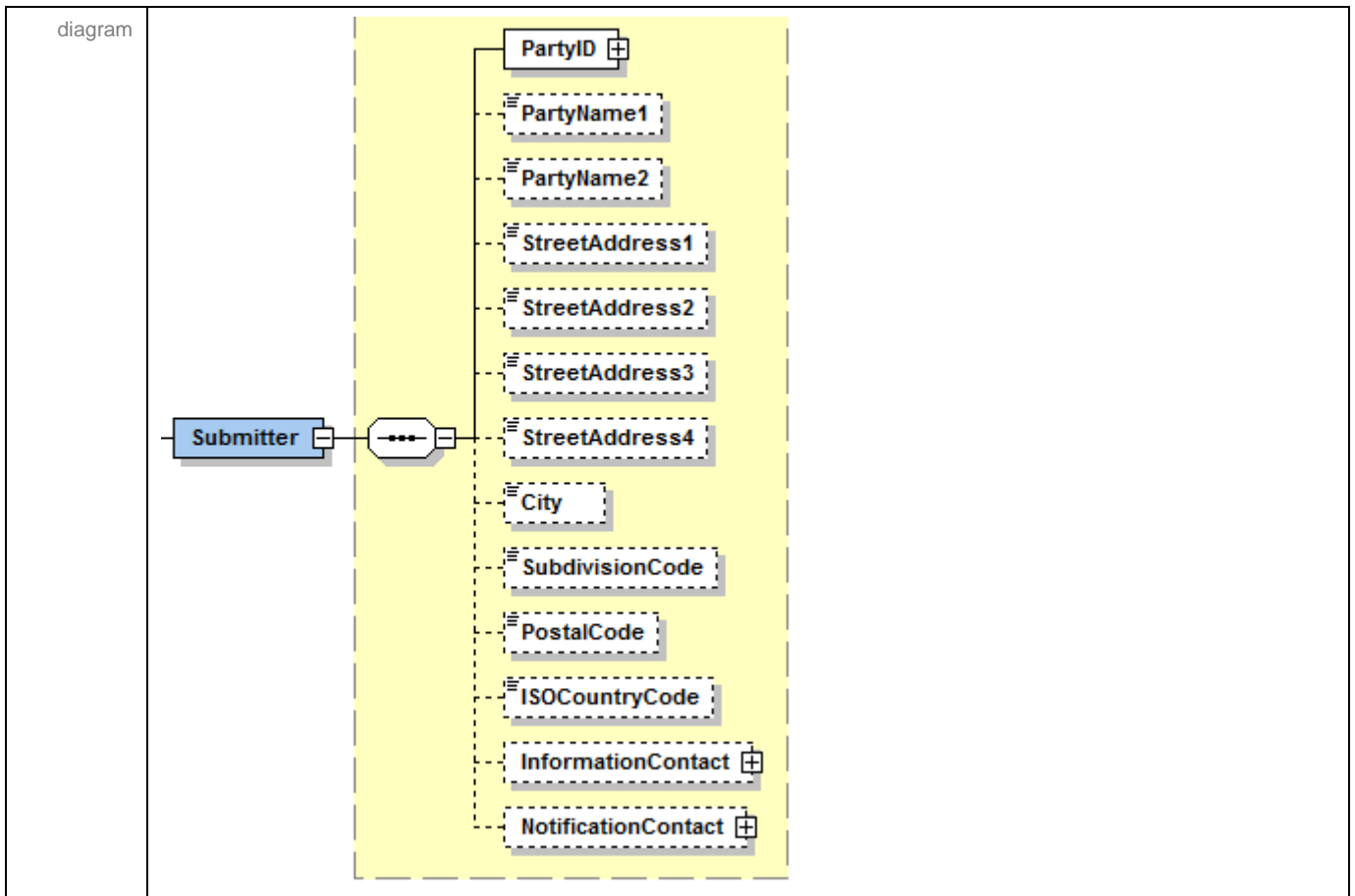
element	<b>SponsorID</b>									
properties	min use	0	max use	1	min size		max size		type	string
description	Sponsors are entities that have a commercial relationship with a Tenant under which they either direct transactions to the Tenant or receive transactions from the Tenant. Typically, an Alliance Partner is a Sponsor.									
Annotation	Please work with your INTTRA Integration Project Manager to determine how to populate this element.									
attributes	name		type		max size		use		enumeration	Annotations

element	<b>INTTRAEVGMID</b>									
properties	min use	0	max use	1	min size	1	max size	70	type	string
description	Unique ID assigned by INTTRA.									
Annotation	This value can be provided in an Amend or a Cancel transaction from the Submitter.									
attributes	name		type		max size		use		enumeration	Annotations

element	<b>State</b>									
properties	min use	1	max use	1	min size	1	max size	70	type	token
description	Indicates the status of the transaction.									
Annotation	<p>For an Original VGM (State = Original), the combination of Submitter, Submitter Reference, and Container Number must be unique among all non-terminated (not Cancelled) VGM transactions from the Submitter.</p> <p>To amend (State = Amend) or Cancel (State = Cancel) a VGM transaction, the incoming VGM must match an existing VGM on either INTTRAEVGMID or the combination of Submitter, Submitter Reference and Container Number.</p>									
attributes	Name		type		max size		use		enumeration	Annotations
									Original	Initial transmission
									Amend	Changes to previous transmission
									Cancel	Cancel of a previous transmission

diagram										
---------	---	--	--	--	--	--	--	--	--	--

element	<b>Submitter</b>									
properties	min use	1	max use	1	min size		max size		type	
description	Party submitting the eVGM transaction to INTTRA. Leverages the standard eVGM Party structure described below.									
Annotation	Submitter is mandatory and it must be an INTTRA registered party.									
attributes	name		type		max size		use		enumeration	Annotations



element	<b>PartyID</b>	min use	0	max use	1
element	<b>PartyName1</b>	min use	0	max use	1
element	<b>PartyName2</b>	min use	0	max use	1
element	<b>StreetAddress1</b>	min use	0	max use	1
element	<b>StreetAddress2</b>	min use	0	max use	1
element	<b>StreetAddress3</b>	min use	0	max use	1
element	<b>StreetAddress4</b>	min use	0	max use	1
element	<b>City</b>	min use	0	max use	1
element	<b>SubdivisionCode</b>	min use	0	max use	1
element	<b>PostalCode</b>	min use	0	max use	1
element	<b>ISOCountryCode</b>	min use	0	max use	1
element	<b>InformationContact</b>	min use	0	max use	1
element	<b>NotificationContact</b>	min use	0	max use	1



element	PartyID									
properties	min use	0	max use	1	min size	1	max size	35	type	string
description	Unique Identifier for the Party									
Annotation	Must be an INTTRA Company ID or Partner Alias established in INTTRA.									
attributes	name		type	max size	use	enumeration			Annotations	

element	IDType	min use	1	max use	1
element	ID	min use	1	max use	1

element	IDType									
properties	min use	1	max use	1	min size		max size		type	token
description										
Annotation	Partner Alias is used to transmit the code assigned by the Submitter. The alias needs to be pre-configured in INTTRA.									
attributes	name		type	max size	use	enumeration			Annotations	
						INTTRACompanyID				
						PartnerAlias				

element	ID									
properties	min use	1	max use	1	min size	1	max size	35	type	string
description										
Annotation										
attributes	name		type	max size	use	enumeration			Annotations	

element	PartyName1									
properties	min use	0	max use	1	min size	1	max size	70	type	string
description										
Annotation										
attributes	name		type	max size	use	enumeration			Annotations	

element	PartyName2									
properties	min use	0	max use	1	min size	1	max size	70	type	string
description										
Annotation	Party Name 2 must only be provided when Name 1 is provided.									

attributes	name		type	max size	use	enumeration		Annotations	

element	StreetAddress1									
properties	min use	0	max use	1	min size	1	max size	35	type	string
description										
Annotation										
attributes	name		type	max size	use	enumeration		Annotations		

element	StreetAddress2									
properties	min use	0	max use	1	min size	1	max size	35	type	string
description										
Annotation	Address 2 must only be provided when Address 1 is provided.									
attributes	name		type	max size	use	enumeration		Annotations		

element	StreetAddress3									
properties	min use	0	max use	1	min size	1	max size	35	type	string
description										
Annotation	Address 3 must only be provided when Address 1 and 2 are provided.									
attributes	name		type	max size	use	enumeration		Annotations		

element	StreetAddress4									
properties	min use	0	max use	1	min size	1	max size	35	type	string
description										
Annotation	Address 4 must only be provided when Address 1, 2 and 3 are provided.									
attributes	name		type	max size	use	enumeration		Annotations		

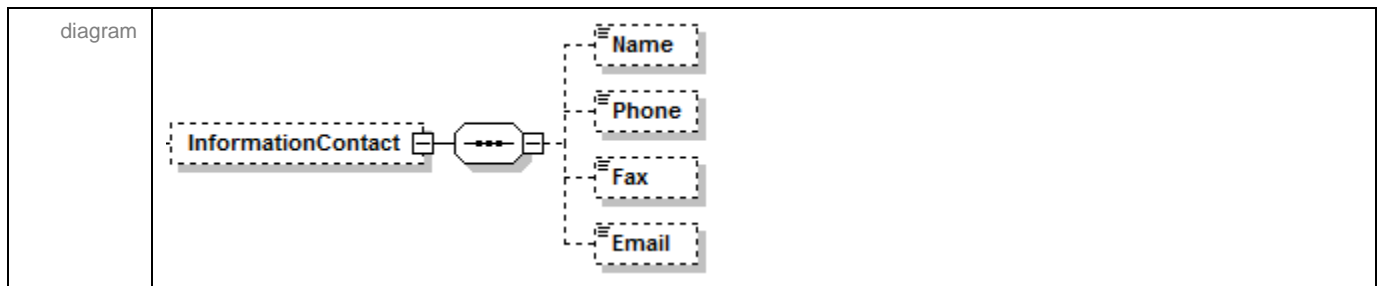
element	City									
properties	min use	0	max use	1	min size	1	max size	35	type	string
description										
Annotation										
attributes	name		type	max size	use	enumeration		Annotations		

element	SubdivisionCode									
properties	min use	0	max use	1	min size	1	max size	9	type	string

description						
Annotation						
attributes	name	type	max size	use	enumeration	Annotations

element	<b>PostalCode</b>									
properties	min use	0	max use	1	min size	1	max size	17	type	string
description										
Annotation										
attributes	name	type	max size	use	enumeration	Annotations				

element	<b>ISOCountryCode</b>									
properties	min use	0	max use	1	min size	2	max size	2	type	string
description										
Annotation										
attributes	name	type	max size	use	enumeration	Annotations				



element	<b>InformationContact</b>									
properties	min use	0	max use	1	min size		max size		type	
description	Information contact name, phone number, fax number or email address									

element	<b>Name</b>	min use	0	max use	1
element	<b>Phone</b>	min use	0	max use	1
element	<b>Fax</b>	min use	0	max use	1
element	<b>Email</b>	min use	0	max use	1

element	<b>Name</b>									
properties	min use	0	max use	1	min size	1	max size	256	type	string
description										
Annotation	When Contact Name is provided, then one of Phone, Fax, or Email must be provided.									
attributes	name	type	max size	use	enumeration	Annotations				

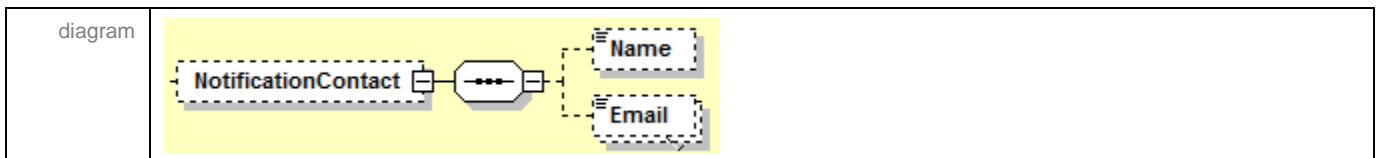


--	--	--	--	--	--	--

element	<b>Phone</b>								
properties	min use	0	max use	1	min size	1	max size	512	type string
description									
Annotation	When Contact Name is provided, then one of Phone, Fax, or Email must be provided.								
attributes	name		type		max size		use	enumeration	Annotations

element	<b>Fax</b>								
properties	min use	0	max use	1	min size	1	max size	512	type string
description									
Annotation	When Contact Name is provided, then one of Phone, Fax, or Email must be provided.								
attributes	name		type		max size		use	enumeration	Annotations

element	<b>Email</b>								
properties	min use	0	max use	1	min size	1	max size	512	type string
description									
Annotation	When Contact Name is provided, then one of Phone, Fax, or Email must be provided.								
attributes	name		type		max size		use	enumeration	Annotations



element	<b>NotificationContact</b>								
properties	min use	0	max use	1	min size		max size		type
description	Notification contact name and email address. "Success" and "Error" notifications will be sent to "Submitter" notification email addresses. For all other parties only "Success" (not Error) notifications will be sent to notification email addresses.								

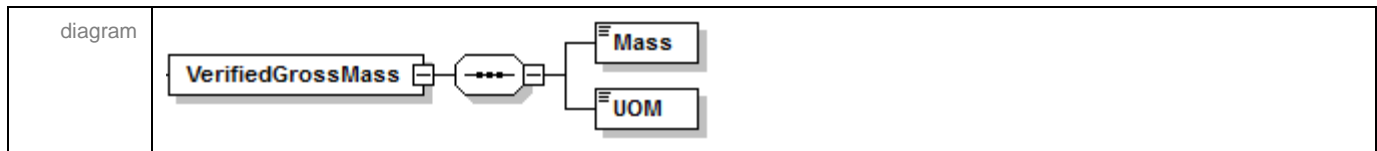
element	<b>Name</b>		min use	0	max use	1
element	<b>Email</b>		min use	0	max use	9

element	<b>Name</b>								
properties	min use	1	max use	1	min size	1	max size	256	type string
description									
Annotation	When Notification Name is provided, then at least one Email address must be provided.								

element	<b>Email</b>									
properties	min use	1	max use	1	min size	1	max size	512	type	string
description										
Annotation	When Notification Name is provided, then at least one Email address must be provided.									

element	<b>SubmitterReference</b>									
properties	min use	1	max use	1	min size	1	max size	70	type	string
description										
Annotation	Submitter Reference is mandatory. It is intended to provide an identifier for the VGM transaction that can be used to relate it to associated transportation documents.									
attributes	name	type	max size	use	enumeration			Annotations		

element	<b>ContainerNumber</b>									
properties	min use	1	max use	1	min size	4	max size	17	type	string
description										
Annotation										
attributes	name	type	max size	use	enumeration			Annotations		



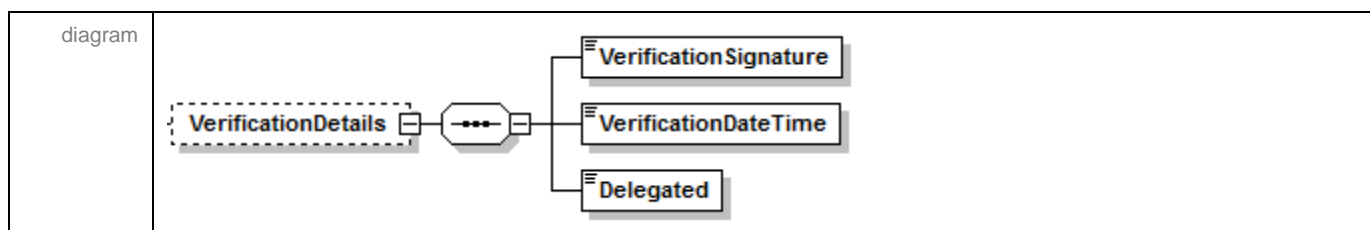
element	<b>VerifiedGrossMass</b>									
properties	min use	1	max use	1	min size		max size		type	
description										
Annotation										
attributes	Name	type	max size	use	enumeration			Annotations		

element	<b>Mass</b>	min use	1	max use	1
element	<b>UOM</b>	min use	1	max use	1

element	<b>Mass</b>									
properties	min use	1	max use	1	min size		max size		type	decimal
description										
Annotation	<p>Weight must conform to below rules:</p> <ul style="list-style-type: none"> <li>- Decimal must be represented using the dot ('.')</li> <li>- Group separators are invalid</li> <li>- Weight: Maximum 3 bytes of precision allowed: examples: valid - "1000.123" invalid - "1,000.123", "1.000,123"</li> </ul> <p>Weight must be greater than 0.</p>									

attributes	name	type	max size	use	enumeration	Annotations

element	UOM									
properties	min use	1	max use	1	min size		max size		type	token
description										
Annotation										
attributes	name	type	max size	use	enumeration	Annotations				
					KGM					
					LBR					



element	VerificationDetails									
properties	min use	0	max use	1	min size		max size		type	
description										
Annotation										
attributes	name	type	max size	use	enumeration	Annotations				

element	VerificationSignature	min use	1	max use	1
element	VerificationDateTime	min use	1	max use	1
element	Delegated	min use	1	max use	1

element	VerificationSignature									
properties	min use	1	max use	1	min size	1	max size	256	type	string
description										
Annotation										
<p>Verification Signature must be in all capital letters.</p> <p>When Delegated flag is set to “false”, then the Verification Signature is associated with the Responsible Party.</p> <p>When Delegated flag is set to “true”, then the Verification Signature is associated with the Authorized Party.</p>										
attributes	name	type	max size	use	enumeration	Annotations				

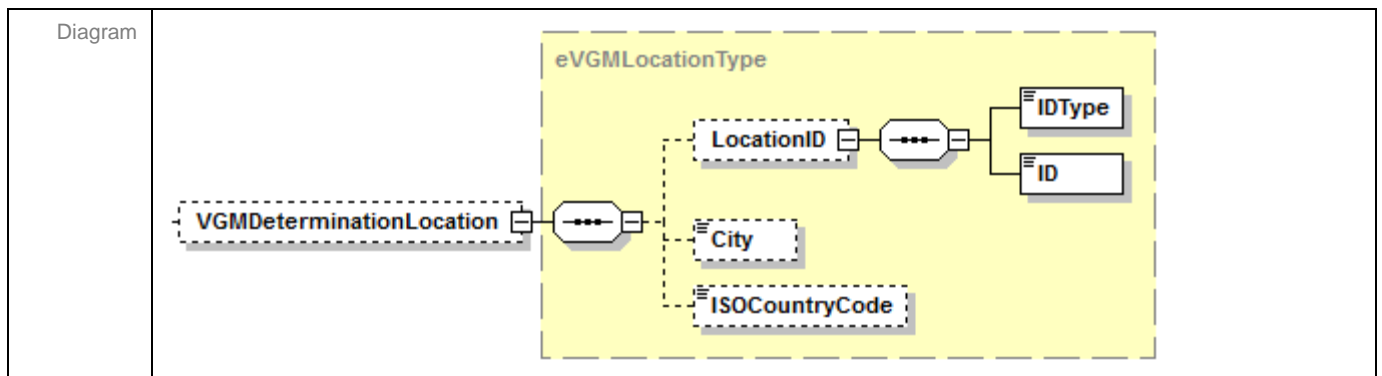
element	VerificationDateTime									
properties	min use	1	max use	1	min size		max size		type	datetime
description										
Date time when the VGM was signed.										

Annotation	<p>When Delegated flag is set to “false”, then the Verification Date Time is associated with the Responsible Party.</p> <p>When Delegated flag is set to “true”, then the Verification Date Time is associated with the Authorized Party.</p>					
attributes	name	type	max size	use	enumeration	Annotations

element	<b>Delegated</b>									
properties	min use	1	max use	1	min size		max size		type	boolean
description	This flag is used to indicate if the VGM was signed by the Responsible Party or if the authority to sign the VGM was delegated to an Authorized Party.									
Annotation	<p>When Delegated flag is set to “false”, then Verification Signature and Data time are associated with the Responsible Party.</p> <p>When Delegated flag is set to “true”, then Verification Signature and Date time are associated with the Authorized Party.</p>									
attributes	name	type	max size	use	enumeration	Annotations				

Diagram	
---------	---

Element	<b>VGM Determination Date Time</b>									
Properties	min use	0	max use	1	min size		max size		type	datetime
Description	Date Time when the VGM was determined.									
Annotation	Date Time is assumed to be local at the place where the VGM was determined.									
Attributes	name	type	max size	use	enumeration	Annotations				



Element	<b>VGM Determination Location</b>									
Properties	min use	0	max use	1	min size		max size		type	
Description	Location to indicate where the VGM was determined.									
Annotation	Location ID (preferred) or City name or ISO Country Code must be provided.									
Attributes	name	type	max size	use	enumeration	Annotations				

Element	<b>LocationID</b>									
---------	-------------------	--	--	--	--	--	--	--	--	--

Properties	min use	0	max use	1	min size		max size		type	
Description										
Annotation	When LocationID is provided, then ID and IDType must be provided. Either LocationID or City and ISO Country Code must be provided. LocationID is preferred.									
Attributes	name		type		max size		use		enumeration	Annotations

element	<b>IDType</b>									
properties	min use	1	max use	1	min size		max size		type	token
description										
Annotation	UNLOC is the UN Location Code associated with the location. Partner Alias is used to transmit the code assigned by the Submitter. The alias needs to be pre-configured in INTTRA.									
attributes	name		type		max size		use		enumeration	Annotations
									UNLOC	
									PartnerAlias	

element	<b>ID</b>									
properties	min use	1	max use	1	min size	1	max size	35	type	string
description	Identifier for the location where VGM was determined									
Annotation										
attributes	name		type		max size		use		enumeration	Annotations

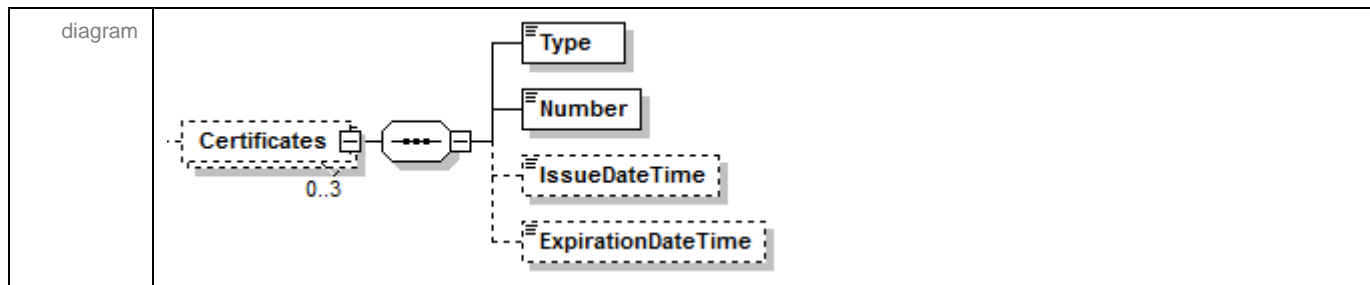
element	<b>City</b>									
properties	min use	0	max use	1	min size	1	max size	256	type	string
description										
Annotation										
attributes	name		type		max size		use		enumeration	Annotations

element	<b>ISOCountryCode</b>									
properties	min use	0	max use	1	min size	2	max size	2	type	string
description										
Annotation										
attributes	name		type		max size		use		enumeration	Annotations

diagram										
---------	---	--	--	--	--	--	--	--	--	--

element	<b>VGMDeterminationMethod</b>									
properties	min use	0	max use	1	min size		max size		type	token

description	Method used to determine VGM.					
Annotation	VGM Determination Method must be provided when Weighing Party or when one or more Certificates are provided.					
attributes	name	type	max size	use	enumeration	Annotations
					Method1	
					Method2	



element	<b>Certificates</b>									
properties	min use	0	max use	3	min size		max size		type	
description										
Annotation	VGM Determination Method must be provided when one or more Certificates are provided.									
attributes	name	type	max size	use	enumeration			Annotations		

element	<b>Type</b>	min use	1	max use	1
element	<b>Number</b>	min use	1	max use	1
element	<b>IssueDateTime</b>	min use	0	max use	1
element	<b>ExpirationDateTime</b>	min use	0	max use	1

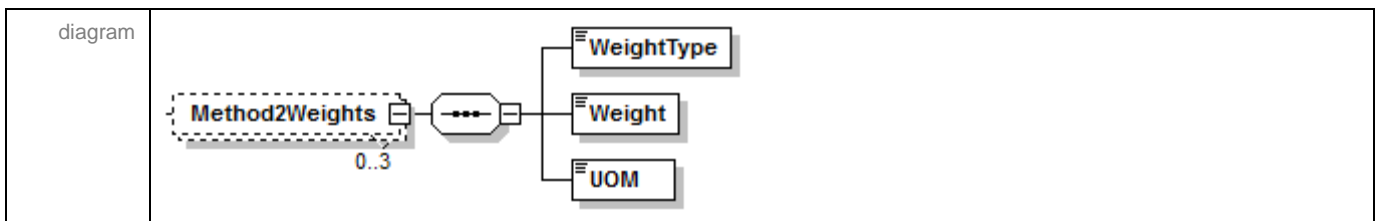
element	<b>Type</b>									
properties	min use	1	max use	1	min size		max size		type	token
description										
Annotation										
attributes	name	type	max size	use	enumeration			Annotations		
					Scale					
					WeighTicket					
					Method1Authorization					
					Method2Authorization					

element	<b>Number</b>									
properties	min use	1	max use	1	min size	1	max size	70	type	string
description										
Annotation										
attributes	name	type	max size	use	enumeration			Annotations		

--	--	--	--	--	--	--

element	<b>IssueDateTime</b>									
properties	min use	0	max use	1	min size		max size		type	datetime
description										
Annotation										
attributes	name		type		max size		use		enumeration	Annotations

element	<b>ExpirationDateTime</b>									
properties	min use	0	max use	1	min size		max size		type	datetime
description										
Annotation										
attributes	name		type		max size		use		enumeration	Annotations



element	<b>Method2Weights</b>									
properties	min use	0	max use	3	min size		max size		type	
description										
Annotation										
attributes	name		type		max size		use		enumeration	Annotations

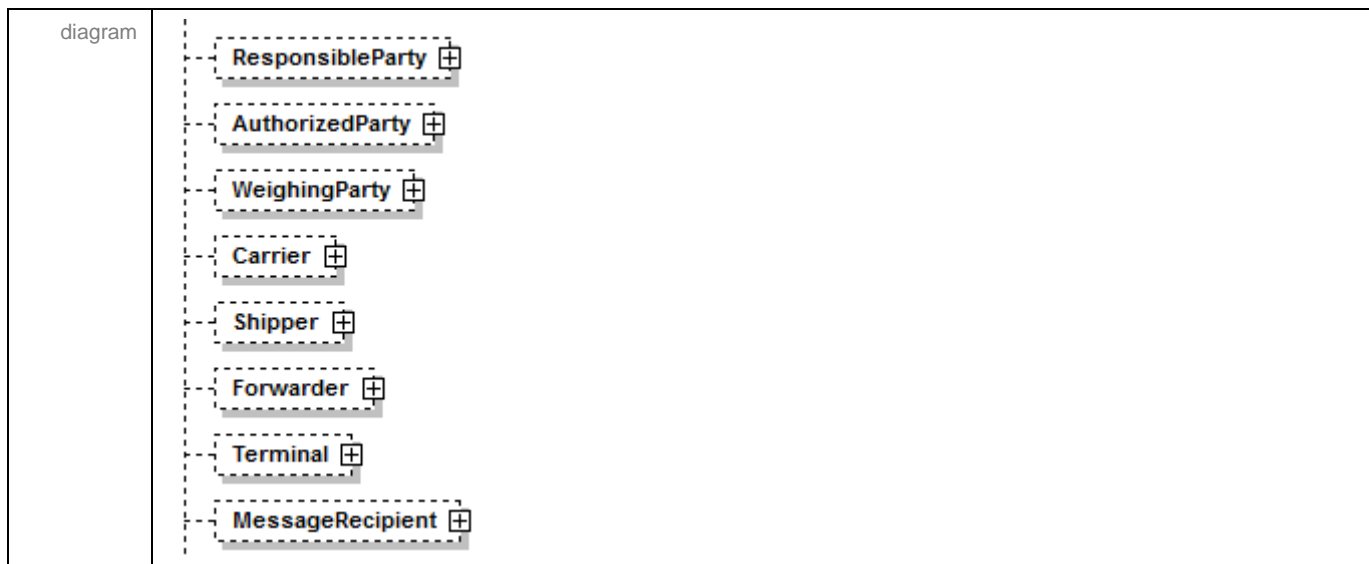
element	<b>WeightType</b>	min use	1	max use	1
element	<b>Weight</b>	min use	1	max use	1
element	<b>UOM</b>	min use	1	max use	1

element	<b>WeightType</b>									
properties	min use	1	max use	1	min size		max size		type	token
description										
Annotation	Cargo is the total weight of the commodity loaded in the container. Dunnage Lashing is the total weight of any dunnage, packing, and/or bracing used to secure the commodities in the container.									
attributes	name		type		max size		use		enumeration	Annotations
									Cargo	
									DunnageLashing	

					ContainerTare	
--	--	--	--	--	---------------	--

element	Weight									
properties	min use	1	max use	1	min size		max size		type	decimal
description										
Annotation	Weight must conform to below rules: - Decimal must be represented using the dot ('.') - Group separators are invalid - Weight: Maximum 3 bytes of precision allowed: examples: valid - "1000.123" invalid - "1,000.123", "1.000,123"									
attributes	name		type		max size		use		enumeration	Annotations

element	UOM									
properties	min use	1	max use	1	min size		max size		type	token
description	Unit of Measure									
Annotation										
attributes	name		type		max size		use		enumeration	Annotations
									KGM	
									LBR	



element	ResponsibleParty									
properties	min use	0	max use	1	min size		max size		type	
description	Leverages standard <a href="#">eVGM Party structure</a> described for the Submitter party.									
Annotation	Responsible Party must be provided when Verification Details are provided.									

element	AuthorizedParty									
properties	min use	0	max use	1	min size		max size		type	
description	Leverages standard <a href="#">eVGM Party structure</a> described for the Submitter party.									



Annotation	Authorized Party may only be provided when Verification Details are provided and the Delegated flag = 'true'								
------------	--	--	--	--	--	--	--	--	--

element	<b>WeighingParty</b>								
properties	min use	0	max use	1	min size		max size		type
description	Leverages standard <a href="#">eVGM Party structure</a> described for the Submitter party.								

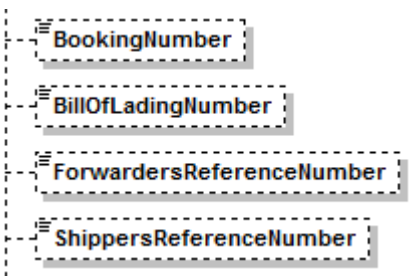
element	<b>Carrier</b>								
properties	min use	0	max use	1	min size		max size		type
description	Leverages standard <a href="#">eVGM Party structure</a> described for the Submitter party. In addition, Notification Contact structure may be used by VGM Submitters to identify up to 9 email addresses for Carriers in their VGM transactions to ensure that carriers receive VGM transactions from INTTRA in the event that Carriers have not made any other delivery arrangements with INTTRA. INTTRA recommends that VGM Submitters identify all Carriers with their proper SCAC Codes.								

element	<b>Shipper</b>								
properties	min use	0	max use	1	min size		max size		type
description	Leverages standard <a href="#">eVGM Party structure</a> described for the Submitter party.								
Annotation	At least one of Carrier, Forwarder, or Shipper must be provided and it must be an INTTRA registered party.								

element	<b>Forwarder</b>								
properties	min use	0	max use	1	min size		max size		type
description	Leverages standard <a href="#">eVGM Party structure</a> described for the Submitter party.								
Annotation	At least one of Carrier, Forwarder, or Shipper must be provided and it must be an INTTRA registered party.								

element	<b>Terminal</b>								
properties	min use	0	max use	1	min size		max size		type
description	Leverages standard <a href="#">eVGM Party structure</a> described for the Submitter party.								

element	<b>MessageRecipient</b>								
properties	min use	0	max use	1	min size		max size		type
description	Leverages standard <a href="#">eVGM Party structure</a> described for the Submitter party.								

diagram									
---------	---	--	--	--	--	--	--	--	--

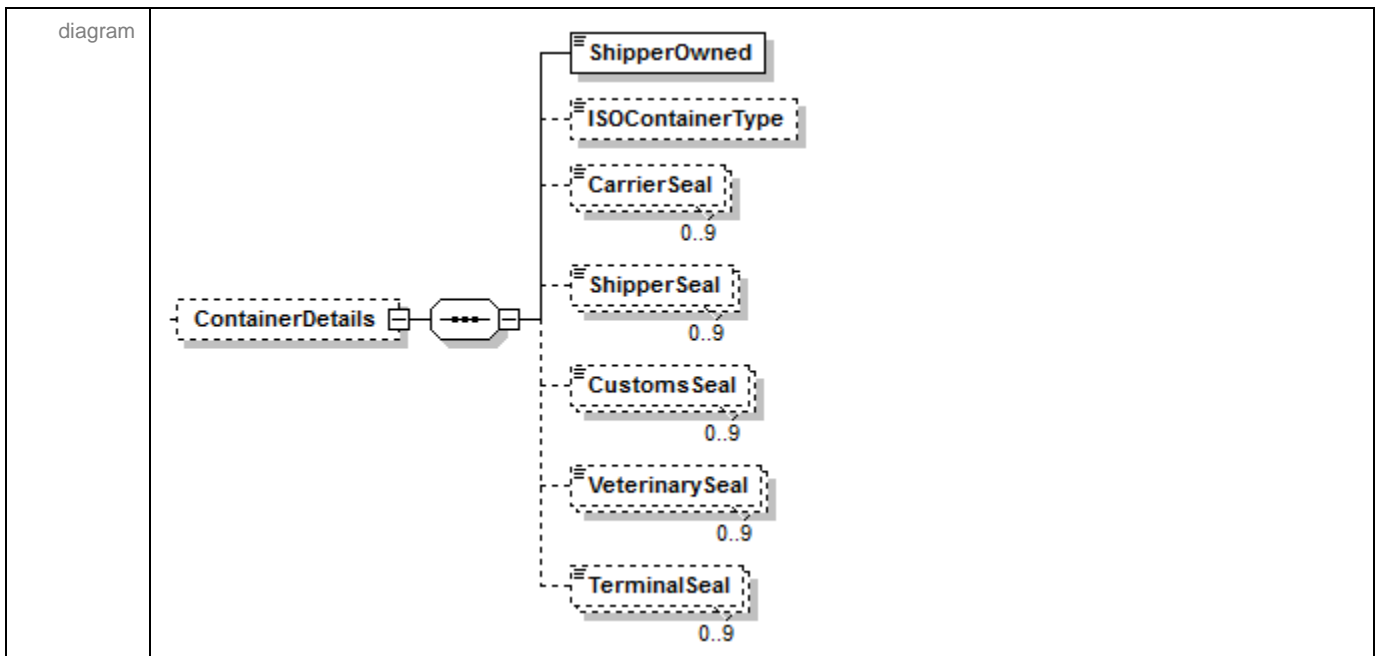
element	<b>BookingNumber</b>								
properties	min use	0	max use	1	min size	1	max size	70	type String
description									
Annotation	Either Booking Number or Bill Of Lading Number must be provided when Verification Details are present.								
attributes	name	type	max size	use	enumeration		Annotations		

--	--	--	--	--	--	--

element	BillOfLadingNumber									
properties	min use	0	max use	1	min size	1	max size	70	type	string
description										
Annotation	Either Booking Number or Bill Of Lading Number must be provided when Verification Details are present.									
attributes	name		type	max size	use	enumeration			Annotations	

element	<b>ForwardersReferenceNumber</b>									
properties	min use	0	max use	1	min size	1	max size	70	type	string
description										
Annotation										
attributes	name		type		max size		use		enumeration	Annotations

element	<b>ShippersReferenceNumber</b>									
properties	min use	0	max use	1	min size	1	max size	70	type	string
description										
Annotation										
attributes	name		type		max size		use		enumeration	Annotations



element	<b>ContainerDetails</b>									
properties	min use	0	max use	1	min size		max size		type	

description						
Annotation						
attributes	name	type	max size	use	enumeration	Annotations

element	<b>ShipperOwned</b>	min use	1	max use	1
element	<b>ISOContainerType</b>	min use	0	max use	1
element	<b>CarrierSeal</b>	min use	0	max use	9
element	<b>ShipperSeal</b>	min use	0	max use	9
element	<b>CustomsSeal</b>	min use	0	max use	9
element	<b>VeterinarySeal</b>	min use	0	max use	9
element	<b>TerminalSeal</b>	min use	0	max use	9

element	<b>ShipperOwned</b>									
properties	min use	1	max use	1	min size		max size		type	boolean
description	Indicates if the container is owned by the Shipper.									
Annotation										
attributes	name	type	max size	use	enumeration			Annotations		
					true					
					false			Default to 'false'		

element	<b>ISOContainerType</b>									
properties	min use	0	max use	1	min size	4	max size	4	type	string
description										
Annotation										
attributes	name	type	max size	use	enumeration			Annotations		

element	<b>CarrierSeal</b>									
properties	min use	0	max use	9	min size	1	max size	35	type	string
description										
Annotation										
attributes	name	type	max size	use	enumeration			Annotations		

element	<b>ShipperSeal</b>									
properties	min use	0	max use	9	min size	1	max size	35	type	string
description										
Annotation										

attributes	name	type	max size	use	enumeration	Annotations

element	CustomsSeal									
properties	min use	0	max use	9	min size	1	max size	35	type	string
description										
Annotation										
attributes	name	type	max size	use	enumeration			Annotations		

element	VeterinarySeal									
properties	min use	0	max use	9	min size	1	max size	35	type	string
description										
Annotation										
attributes	name	type	max size	use	enumeration			Annotations		

element	TerminalSeal									
properties	min use	0	max use	9	min size	1	max size	35	type	string
description										
Annotation										
attributes	name		type	max size	use	enumeration		Annotations		

## IX. Appendix 1 - VGM Use Cases

### A. Use Case 1: Direct VGM Submission – Single Container

In this use case, the Responsible Party signs and submits VGM to the Carrier. Authorized Party will not be provided. A typical scenario is one in which the Beneficial Cargo Owner (BCO) is the Shipper and the BCO is providing VGM details directly to the Carrier. Variations include Forwarder or NVO acting as Shipper for their bookings with Vessel Operator Carriers. The Shipper is expected to be the Submitter. Typically, one of Shipper or Forwarder and Carrier will be provided along with the Responsible Party. Signature will be provided under the Responsible Party. The transaction may also include the VGM Determination details and the Carrier notification contact with emails for INTTRA to send the VGM via email.

```
<n:SubmitVGM xmlns:n="http://xml.intra.com/vgm/services/01/publication >
  <MessageGuid>45234401</MessageGuid>
  <MessageDateTime>2016-04-05T13:47:47</MessageDateTime>
  <MessageVersion>0.8</MessageVersion>
  <State>Original</State>
  <Submitter>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </Submitter>
  <SubmitterReference>BN220398</SubmitterReference>
  <ContainerNumber>MRKU3019284</ContainerNumber>
  <VerifiedGrossMass>
    <Mass>13401.5</Mass>
    <UOM>KGM</UOM>
  </VerifiedGrossMass>
  <VerificationDetails>
    <VerificationSignature>JOHN ADAMS</VerificationSignature>
    <VerificationDateTime>2016-04-04T09:30:47</VerificationDateTime>
    <Delegated>>false</Delegated>
  </VerificationDetails>
  <VGMDeterminationDateTime>2016-03-31T07:35:47</VGMDeterminationDateTime>
  <ResponsibleParty>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </ResponsibleParty>
  <Carrier>
    <PartyID>
      <IDType>PartnerAlias</IDType>
      <ID>SCAC</ID>
    </PartyID>
    <PartyName1>CARRIER NAME</PartyName1>
    <NotificationContact>
      <Name>NOTIFICATION CONTACT NAME</Name>
      <Email>CONTACT1@CARRIER.COM</Email>
      <Email>CONTACT2@CARRIER.COM</Email>
    </NotificationContact>
  </Carrier>
</Shipper>
```

```
<PartyID>
  <IDType>INTTRACompanyID</IDType>
  <ID>802441</ID>
</PartyID>
<PartyName1>SHIPPER NAME</PartyName1>
<InformationContact>
  <Name>JANE DOE</Name>
  <Phone>973-203-293</Phone>
</InformationContact>
</Shipper>
<BookingNumber>BN220398</BookingNumber>
</n:SubmitVGM>
```

## B. Use Case 2: Delegated VGM Submission to Carrier

In this use case, the Authorized Party signs and submits VGM to the Carrier. The Responsible Party has delegated VGM signature authority to an Authorized party. Typical scenario is that a Forwarder is filing VGM for a Shipper. The Shipper is the Responsible Party and the Forwarder is the Authorized party. The Forwarder is expected to be the Submitter. This transaction may also include VGM Determination details.

```
<n:SubmitVGM xmlns:n="http://xml.inttra.com/vgm/services/01/publication">
  <MessageGuid>8293293</MessageGuid>
  <MessageDateTime>2016-04-05T13:47:47</MessageDateTime>
  <MessageVersion>1.0</MessageVersion>
  <State>Original</State>
  <Submitter>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>803928</ID>
    </PartyID>
    <PartyName1>FORWARDER NAME</PartyName1>
  </Submitter>
  <SubmitterReference>96580507</SubmitterReference>
  <ContainerNumber>TEMU7651967</ContainerNumber>
  <VerifiedGrossMass>
    <Mass>6930.8</Mass>
    <UOM>KGM</UOM>
  </VerifiedGrossMass>
  <VerificationDetails>
    <VerificationSignature>TIM BROWN</VerificationSignature>
    <VerificationDateTime>2016-04-04T22:00:47</VerificationDateTime>
    <Delegated>true</Delegated>
  </VerificationDetails>
  <VGMDeterminationDateTime>2016-03-31T14:55:47</VGMDeterminationDateTime>
  <ResponsibleParty>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>803999</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </ResponsibleParty>
  <AuthorizedParty>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>803928</ID>
    </PartyID>
    <PartyName1>FORWARDER NAME</PartyName1>
  </AuthorizedParty>
  <Carrier>
    <PartyID>
      <IDType>PartnerAlias</IDType>
      <ID>SCAC</ID>
    </PartyID>
    <PartyName1>CARRIER NAME</PartyName1>
  </Carrier>
  <Forwarder>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>803928</ID>
    </PartyID>
    <PartyName1>FORWARDER NAME</PartyName1>
  </Forwarder>
</n:SubmitVGM>
```

<BookingNumber>96580507</BookingNumber>  
</n:SubmitVGM>



### C. Use Case 3: 3<sup>rd</sup> Party Participant VGM Submission

In this use case, the 3<sup>rd</sup> Party submits VGM to Responsible Party or Authorized Party. Typical scenario is that a Scale is sending weights to a Shipper or a Forwarder (3PL). The Recipients will 'sign' the VGM for delivery to the Carrier. A variant has a Terminal weighing the container. The weights are VGM's, but not signed and are being routed to the party that will sign them. In this case, one of the two Methods (Method1 or Method2) will be provided. The Weighing Party will be reported. The Weigher is the Submitter. In this use case, Verification Details (Signature & Date) will not be provided. It is also likely that the Responsible Party will not be provided as the Weigher can be sending the transaction to a 3PL.

```
<n:SubmitVGM xmlns:n="http://xml.intra.com/vgm/services/01/publication">
  <MessageGuid>8293293</MessageGuid>
  <MessageDateTime>2016-04-01T13:47:47</MessageDateTime>
  <MessageVersion>1.0</MessageVersion>
  <State>Original</State>
  <Submitter>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>803928</ID>
    </PartyID>
    <PartyName1>WEIGHING PARTY NAME</PartyName1>
  </Submitter>
  <SubmitterReference>WP377285</SubmitterReference>
  <ContainerNumber>TEMU7651967</ContainerNumber>
  <VerifiedGrossMass>
    <Mass>6930.8</Mass>
    <UOM>KGM</UOM>
  </VerifiedGrossMass>
  <VGMDeterminationDateTime>2016-03-31T14:55:47</VGMDeterminationDateTime>
  <VGMDeterminationMethod>Method1</VGMDeterminationMethod>
  <Certificates>
    <Type>WeighTicket</Type>
    <Number>WT30999</Number>
  </Certificates>
  <WeighingParty>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>803928</ID>
    </PartyID>
    <PartyName1>WEIGHING PARTY NAME</PartyName1>
  </WeighingParty>
  <Forwarder>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>800234</ID>
    </PartyID>
    <PartyName1>FORWARDER NAME</PartyName1>
  </Forwarder>
  <ContainerDetails>
    <ShipperOwned>>false</ShipperOwned>
    <CarrierSeal>SLB2380090</CarrierSeal>
  </ContainerDetails>
</n:SubmitVGM>
```

#### D. Use Case 4: Hybrid VGM Submission

In this use case, 3<sup>rd</sup> Party submits VGM to the Carrier and the Responsible Party. Typical scenario is that a Terminal is weighing an incoming container. The Shipper has authorized the Terminal to sign VGMs on the Shipper's behalf. In this case, the Shipper is the Responsible Party, the Terminal is the Submitter, the Authorized party and the Weighing Party. Carrier and Shipper (BCO, NVO, Co-loading Forwarder) will be provided. Signature will be provided for the Authorized party (with Delegated flag set to 'true'). In this case, one of the two Methods (Method1 or Method2) will be provided. The Weighing Party will be reported.

```
<n:SubmitVGM xmlns:n="http://xml.intra.com/vgm/services/01/publication">
  <MessageGuid>0234337</MessageGuid>
  <MessageDateTime>2016-04-05T13:47:47</MessageDateTime>
  <MessageVersion>0.8</MessageVersion>
  <State>Original</State>
  <Submitter>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801445</ID>
    </PartyID>
    <PartyName1>TERMINAL NAME</PartyName1>
  </Submitter>
  <SubmitterReference>TZ309095</SubmitterReference>
  <ContainerNumber>MRKU3019284</ContainerNumber>
  <VerifiedGrossMass>
    <Mass>15701.15</Mass>
    <UOM>KGM</UOM>
  </VerifiedGrossMass>
  <VerificationDetails>
    <VerificationSignature>PETER JONES</VerificationSignature>
    <VerificationDateTime>2016-04-04T04:50:47</VerificationDateTime>
    <Delegated>true</Delegated>
  </VerificationDetails>
  <VGMDeterminationDateTime>2016-03-31T22:00:47</VGMDeterminationDateTime>
  <VGMDeterminationLocation>
    <LocationID>
      <IDType>UNLOC</IDType>
      <ID>USYNC</ID>
    </LocationID>
    <City>NEW YORK</City>
  </VGMDeterminationLocation>
  <VGMDeterminationMethod>Method1</VGMDeterminationMethod>
  <Certificates>
    <Type>WeighTicket</Type>
    <Number>CTW5599201</Number>
  </Certificates>
  <ResponsibleParty>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </ResponsibleParty>
  <AuthorizedParty>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801445</ID>
    </PartyID>
    <PartyName1>TERMINAL NAME</PartyName1>
  </AuthorizedParty>
</n:SubmitVGM>
```

```
<WeighingParty>
  <PartyID>
    <IDType>INTTRACompanyID</IDType>
    <ID>801445</ID>
  </PartyID>
  <PartyName1>TERMINAL NAME</PartyName1>
</WeighingParty>
<Carrier>
  <PartyID>
    <IDType>PartnerAlias</IDType>
    <ID>SCAC</ID>
  </PartyID>
  <PartyName1>CARRIER NAME</PartyName1>
</Carrier>
<Shipper>
  <PartyID>
    <IDType>INTTRACompanyID</IDType>
    <ID>801345</ID>
  </PartyID>
  <PartyName1>SHIPPER NAME</PartyName1>
</Shipper>
<BookingNumber>BN883098</BookingNumber>
<ContainerDetails>
  <ShipperOwned>>false</ShipperOwned>
  <ShipperSeal>SH558490</ShipperSeal>
</ContainerDetails>
</n:SubmitVGM>
```

## E. Use Case 5: VGM Submission for Shipper Owned Containers

In this use case, the Responsible Party signs and submits VGM for a shipper owned container to the Carrier. By default, INTTRA assumes that containers are supplied by Carriers. In this case, the Shipper Supplied flag should be set and the ISO type should be provided. Otherwise the transaction is typical.

```
<n:SubmitVGM xmlns:n="http://xml.inttra.com/vgm/services/01/publication">
  <MessageGuid>45234401</MessageGuid>
  <MessageDateTime>2016-04-05T13:47:47Z</MessageDateTime>
  <MessageVersion>0.8</MessageVersion>
  <State>Original</State>
  <Submitter>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </Submitter>
  <SubmitterReference>BN220398</SubmitterReference>
  <ContainerNumber>MRKU3019284</ContainerNumber>
  <VerifiedGrossMass>
    <Mass>13401.5</Mass>
    <UOM>KGM</UOM>
  </VerifiedGrossMass>
  <VerificationDetails>
    <VerificationSignature>JOHN ADAMS</VerificationSignature>
    <VerificationDateTime>2016-04-04T09:30:47</VerificationDateTime>
    <Delegated>>false</Delegated>
  </VerificationDetails>
  <VGMDeterminationDateTime>2016-03-31T07:35:47</VGMDeterminationDateTime>
  <ResponsibleParty>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </ResponsibleParty>
  <Carrier>
    <PartyID>
      <IDType>PartnerAlias</IDType>
      <ID>SCAC</ID>
    </PartyID>
    <PartyName1>CARRIER NAME</PartyName1>
  </Carrier>
  <Shipper>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>802441</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
    <InformationContact>
      <Name>JANE DOE</Name>
    </InformationContact>
  </Shipper>
  <BookingNumber>BN220398</BookingNumber>
  <ShippersReferenceNumber>BN220398</ShippersReferenceNumber>
  <ContainerDetails>
    <ShipperOwned>>true</ShipperOwned>
    <ISOContainerType>22G1</ISOContainerType>
    <ShipperSeal>SH093888</ShipperSeal>
  </ContainerDetails>
</n:SubmitVGM>
```

</ContainerDetails>  
</n:SubmitVGM>

## F. Use Case 6: VGM Determination Method Provision

In this use case, the Responsible Party signs and submits VGM along with its determination method to the Carrier. It is expected that some jurisdictions will require that the method of determination be reported as part of VGM submission. This requirement would apply regardless of who submits the VGM for official consumption (Carrier, Terminal). Method reporting requires that details related to Determination Method be provided.

```
<n:SubmitVGM xmlns:n="http://xml.intra.com/vgm/services/01/publication">
  <MessageGuid>45234401</MessageGuid>
  <MessageDateTime>2016-04-05T13:47:47</MessageDateTime>
  <MessageVersion>0.8</MessageVersion>
  <State>Original</State>
  <Submitter>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </Submitter>
  <SubmitterReference>SH310095</SubmitterReference>
  <ContainerNumber>MRKU3019284</ContainerNumber>
  <VerifiedGrossMass>
    <Mass>13401.5</Mass>
    <UOM>KGM</UOM>
  </VerifiedGrossMass>
  <VerificationDetails>
    <VerificationSignature>JOHN ADAMS</VerificationSignature>
    <VerificationDateTime>2016-04-04T04:50:47</VerificationDateTime>
    <Delegated>>false</Delegated>
  </VerificationDetails>
  <VGMDeterminationDateTime>2016-03-31T22:00:47</VGMDeterminationDateTime>
  <VGMDeterminationLocation>
    <LocationID>
      <IDType>UNLOC</IDType>
      <ID>USPIT</ID>
    </LocationID>
    <City>PITTSBURGH</City>
  </VGMDeterminationLocation>
  <VGMDeterminationMethod>Method1</VGMDeterminationMethod>
  <ResponsibleParty>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </ResponsibleParty>
  <WeighingParty>
    <PartyName1>CERTIFIED WEIGHING</PartyName1>
  </WeighingParty>
  <Carrier>
    <PartyID>
      <IDType>PartnerAlias</IDType>
      <ID>SCAC</ID>
    </PartyID>
    <PartyName1>CARRIER NAME</PartyName1>
  </Carrier>
  <Shipper>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
```

```
<ID>801345</ID>
  </PartyID>
  <PartyName1>SHIPPER NAME</PartyName1>
</Shipper>
<BookingNumber>BN883098</BookingNumber>
<ContainerDetails>
  <ShipperOwned>>false</ShipperOwned>
  <ShipperSeal>SH192888</ShipperSeal>
</ContainerDetails>
</n:SubmitVGM>
```

## G. Use Case 7: VGM Determination Method and Method Authorization

In this use case, the Responsible Party signs and submits VGM to Carrier along with its determination method and also includes the method Authorization Number. It is expected that some jurisdictions will require Weighers to be authorized to use specific determination methods. Evidence of Authorization (Authorization Number) will be required as part of VGM submission. This requirement applies to the Weighing Party. For example, it seems that the UK will require Method 2 weighers to be authorized and that the Authorization Number has to be included with the Method 2 VGM submissions.

```
<n:SubmitVGM xmlns:n="http://xml.intra.com/vgm/services/01/publication">
  <MessageGuid>45234401</MessageGuid>
  <MessageDateTime>2016-04-05T13:47:47</MessageDateTime>
  <MessageVersion>0.8</MessageVersion>
  <State>Original</State>
  <Submitter>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </Submitter>
  <SubmitterReference>SH310095</SubmitterReference>
  <ContainerNumber>MRKU3019284</ContainerNumber>
  <VerifiedGrossMass>
    <Mass>13401.5</Mass>
    <UOM>KGM</UOM>
  </VerifiedGrossMass>
  <VerificationDetails>
    <VerificationSignature>JOHN ADAMS</VerificationSignature>
    <VerificationDateTime>2016-04-04T04:50:47</VerificationDateTime>
    <Delegated>false</Delegated>
  </VerificationDetails>
  <VGMDeterminationDateTime>2016-03-31T22:00:47</VGMDeterminationDateTime>
  <VGMDeterminationLocation>
    <LocationID>
      <IDType>UNLOC</IDType>
      <ID>USPIT</ID>
    </LocationID>
    <City>PITTSBURGH</City>
  </VGMDeterminationLocation>
  <VGMDeterminationMethod>Method2</VGMDeterminationMethod>
  <Certificates>
    <Type>Scale</Type>
    <Number>SCL0293888</Number>
  </Certificates>
  <Certificates>
    <Type>WeighTicket</Type>
    <Number>WTKT0293111</Number>
  </Certificates>
  <Certificates>
    <Type>Method2Authorization</Type>
    <Number>CTW5599201</Number>
  </Certificates>
  <ResponsibleParty>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </ResponsibleParty>
</n:SubmitVGM>
```



```
</ResponsibleParty>
<WeighingParty>
  <PartyName1>CERTIFIED WEIGHING</PartyName1>
</WeighingParty>
<Carrier>
  <PartyID>
    <IDType>PartnerAlias</IDType>
    <ID>SCAC</ID>
  </PartyID>
  <PartyName1>CARRIER NAME</PartyName1>
</Carrier>
<Shipper>
  <PartyID>
    <IDType>INTTRACompanyID</IDType>
    <ID>801345</ID>
  </PartyID>
  <PartyName1>SHIPPER NAME</PartyName1>
</Shipper>
<BookingNumber>BN883098</BookingNumber>
<ShippersReferenceNumber>SH29898</ShippersReferenceNumber>
<ContainerDetails>
  <ShipperOwned>>false</ShipperOwned>
  <ShipperSeal>SH192888</ShipperSeal>
</ContainerDetails>
</n:SubmitVGM>
```

## H. Use Case 8: Direct VGM Submission to Terminal

In this use case, the Responsible Party signs and submits VGM to the Terminal. Generally it is expected that Carriers will provide VGM details to Terminals, but the SOLAS regulations hold the Shipper responsible for providing VGM to Terminals and appear to allow the Shipper to do so directly. In this use case, Terminal has to be named in the VGM transaction. In order to receive VGM transactions from INTTRA, the Terminal also has to be registered with INTTRA. Otherwise the transaction is typical.

```
<n:SubmitVGM xmlns:n="http://xml.inttra.com/vgm/services/01/publication">
  <MessageGuid>45234401</MessageGuid>
  <MessageDateTime>2016-04-05T13:47:47</MessageDateTime>
  <MessageVersion>0.8</MessageVersion>
  <State>Original</State>
  <Submitter>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </Submitter>
  <SubmitterReference>SH347785</SubmitterReference>
  <ContainerNumber>MRKU3019284</ContainerNumber>
  <VerifiedGrossMass>
    <Mass>13401.5</Mass>
    <UOM>KGM</UOM>
  </VerifiedGrossMass>
  <VerificationDetails>
    <VerificationSignature>JOHN ADAMS</VerificationSignature>
    <VerificationDateTime>2016-04-04T22:00:47</VerificationDateTime>
    <Delegated>>false</Delegated>
  </VerificationDetails>
  <VGMDeterminationDateTime>2016-04-01T14:55:47</VGMDeterminationDateTime>
  <VGMDeterminationLocation>
    <LocationID>
      <IDType>UNLOC</IDType>
      <ID>USEZA</ID>
    </LocationID>
    <City>ELIZABETH</City>
    <ISOCountryCode>US</ISOCountryCode>
  </VGMDeterminationLocation>
  <ResponsibleParty>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </ResponsibleParty>
  <Shipper>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </Shipper>
  <Terminal>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801346</ID>
    </PartyID>
```

```
<PartyName1>TERMINAL NAME</PartyName1>  
</Terminal>  
<BookingNumber>BN1192898</BookingNumber>  
</n:SubmitVGM>
```

## I. Use Case 9: Delegated VGM Submission to Terminal

This use case is an extension of Use Case 2 (Delegated VGM Submission to Carrier) and Use Case 8 (Direct VGM Submission to Terminal) described above. In this case the authority to sign a VGM destined for a Terminal is delegated by the Responsible Party. This use case also illustrates that the person signing the VGM does not have to be associated with any party on the transaction. Otherwise the transaction is typical submission to the Terminal.

```
<n:SubmitVGM xmlns:n="http://xml.intra.com/vgm/services/01/publication">
  <MessageGuid>45234401</MessageGuid>
  <MessageDateTime>2016-04-05T13:47:47</MessageDateTime>
  <MessageVersion>0.8</MessageVersion>
  <State>Original</State>
  <Submitter>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801349</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </Submitter>
  <SubmitterReference>SH730095</SubmitterReference>
  <ContainerNumber>MRKU3019284</ContainerNumber>
  <VerifiedGrossMass>
    <Mass>13401.5</Mass>
    <UOM>KGM</UOM>
  </VerifiedGrossMass>
  <VerificationDetails>
    <VerificationSignature>TOM JONES</VerificationSignature>
    <VerificationDateTime>2016-04-04T22:00:47</VerificationDateTime>
    <Delegated>true</Delegated>
  </VerificationDetails>
  <VGMDeterminationDateTime>2016-04-01T14:55:47</VGMDeterminationDateTime>
  <VGMDeterminationLocation>
    <LocationID>
      <IDType>UNLOC</IDType>
      <ID>USEZA</ID>
    </LocationID>
    <City>ELIZABETH</City>
    <ISOCountryCode>US</ISOCountryCode>
  </VGMDeterminationLocation>
  <ResponsibleParty>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801349</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </ResponsibleParty>
  <AuthorizedParty>
    <PartyName1>Tom Jones</PartyName1>
  </AuthorizedParty>
  <Shipper>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801349</ID>
    </PartyID>
    <PartyName1>SHIPPER NAME</PartyName1>
  </Shipper>
  <Terminal>
    <PartyID>
      <IDType>INTTRACompanyID</IDType>
      <ID>801345</ID>
    </PartyID>
  </Terminal>
</n:SubmitVGM>
```

```
</PartyID>  
<PartyName1>TERMINAL NAME</PartyName1>  
</Terminal>  
<BookingNumber>BN6922398</BookingNumber>  
</n:SubmitVGM>
```

## X. XML Guidelines

### A. Namespace Definition in VGM XML

VGM XML transactions submitted to INTTRA must include the namespace definition as illustrated below:

```
<n:SubmitVGM xmlns:n="http://xml.intra.com/vgm/services/01/publication">  
...  
</n:SubmitVGM>
```