ic-enc

Data Definition Document

VAR Sales Reporting Schema

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Contents

1 Document History

Date	Version	Change Reference	Summary of Change
30.09.2014	0.1	Pete Collins	Initial draft
20.10.2014	0.2	Pete Collins	Final draft
10.11.2014	0.3	R. Northover	Additions to Schema (IMO NUMBER)
12.11.2014	0.4	R. Northover	Amendments to Subscription Types and style
25.11.2014	0.5	P. Collins	Changes to sample .xml and .xsd location
20.08.2015	0.6	R. Northover	Addition of PAYS Planning Fee

2 Abbreviations and Definitions

Abbreviation	Definition
ENC	Electronic Navigation Chart
PAYS	Pay As You Sail is a vessel position tracked, ENC subscription sales system
SAP	The SAP ERP application is an integrated Enterprise Resource Planning system
VAR	Value Added Reseller
XML	Extensible Markup Language
XSD	XML Schema Definition

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3 Introduction

This document details the business processing rules and XML schema definition to support the reporting of sales to the IC-ENC by VARs. This process and associated schema will be the standard for delivering up-to-date reports of sales to the IC-ENC.

This schema is at v1.0. It is published and maintained by the IC-ENC.

The VARs will use this schema definition to report all sales transactions to the IC-ENC.

The XML Sales Reporting Schema is designed to enable the automated reporting of sales of ENC cells, enabled by the IC-ENC to its VARs under the VARs Agreement.

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4 Sales Reporting

4.1 Business Process

The VAR <u>must</u> report each day, <u>on the day of sale</u>, the sales made of their service to the IC-ENC using the defined XML schema. The XML schema and processing at the IC-ENC will allow either sales reports of individual transactions to be submitted throughout the day (for example immediately after processing the sales transaction) or as a single report at the close of business of all sales transactions completed during that day.

The Sales Report will be in XML format, and will be sent as an e-mail attachment to the following address:

sales@aaopprod.ic-enc.org

On receipt of the Sales Report IC-ENC will validate the file. If the file is not valid (i.e. mandatory data is missing or incorrectly filled in) the complete Sales Report will be rejected and an appropriate email returned to the VAR. The VAR <u>must</u> rectify the validation failure and re-submit the Sales Report to ensure daily sales are fully processed on the day of the sales.

Once a valid XML file has been received it will be processed for pricing purposes by the IC-ENC. During this process where incorrect combinations of product and subscription type are reported, the IC-ENC will price at the next available least cost option.

A confirmation email will be sent per transaction detailing how each individual Purchase Order Number reported in the Sales Report was processed. A unique IC-ENC order reference for each transaction will be generated.

A monthly statement and detail report will be subsequently issued by the IC-ENC for all transactions reported through the daily Sales Report within that billing month.

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4.2   Schema Details

As stated above the reporting procedure will allow each VAR to report sales individually; i.e. each report of sale as a separate XML document submitted to the IC-ENC. Alternatively all sales made through the day can be combined into a single XML document and submitted to the IC-ENC at the end of the day. The VAR must, via either method, report all sales made that day to the IC-ENC on that day.

Full technical details of the Report of Sales XML schema are given in section 4.3 below. This section provides additional information for some of the tags.

In signing the VAR Agreement each VAR will be assigned an account number for reporting, which is to be reported at <VARid>. The file will only validate with permitted account numbers.

The <IMOReferenceNumber> element is mandatory in the file and must contain a properly formatted IMO number (IMO followed by a unique 7 digit number). However for orders relating to non-IMO sales the value 'NonIMO' should be used here. In this instance the optional element <NonIMOType> can be used to report the values 'SHOREBASED', 'NAVAL' or 'NonIMOVessel'.

Products are reported at <ProductID>, which must be a valid cell that appears in the IC-ENC catalogue. The VAR is responsible for ensuring that only valid products are reported.

4.3   Schema Structure

The schema will be located at:

https://icenctrial-public.sharepoint.com/Documents/SalesReport.xsd

IC-ENC will maintain this schema and associated VAR Account Numbers, ensuring that VARs can validate the Sales Reports before sending them to the IC-ENC.

XML Tag	Description	Cardinality	Data Type	Validation
SalesReport	Document Root	1:1		
@SchemaVersion	Version of referenced schema	1:1	Decimal	
ReportHeader	Header of report	1:1		
ReportType	Type of Report	1:1	Byte	1 = ENC Sale 2 = SENC Sale
ReportPeriodStartDate	Start of reporting period	1:1	Date yyyy-mm-dd	
ReportPeriodEndDate	End of reporting period	1:1	Date yyyy-mm-dd	
VAR	Report details for specified VAR	1:1		
VARID	VAR Account Number	1:1	String	
ContactEmail	VAR contact e-mail address to which notifications are sent. If omitted any notification emails will be sent to the reply-to address	0:1	String	Regular Expression: "[A-Za-z0-9%_.-]*@[A-Za-z0-9_.-]*"
Distributor	Report details for each Distributor	1:n		
DistributorID	Your Distributor Account Number	0:1	String	

XML Tag	Description	Cardinality	Data Type	Validation
DistributorName	Distributor Name	0:1	String	
CustomerID	Your Customer Account Number	0:1	String	
CustomerName	Customer Name	0:1	String	
Vessel	Report details for each Vessel	1:n		
VesselID	Your Vessel Identifier	0:1	String	
VesselName	Vessel Name	1:1	String	
IMOReferenceNumber	IMO Number	1:1	String	IMOnnnnnnn (where n is a Digit) or NonIMO
NonIMODescription	Description in the absence of an IMO Number	0:1	String	SHOREBASED or NAVAL or NonIMOVessel
PONumber	Your Order Reference	1:1	String	
Subscription	Details of each subscription	1:n		
ProductID	IC-ENC unique Product Reference	1:1	String	ENC Name (8 digit unique ENC name) or PAYSPLAN
SalesQuantity	Quantity Ordered	0:1	Integer	Defaults to 1 if omitted
SubscriptionType	Type of Subscription	1:1	Integer	Refer to Appendix A for values
SubscriptionStartDate	Start date of Subscription	1:1	Date yyyy-mm-dd	
SubscriptionEndDate	End date of Subscription	1:1	Date yyyy-mm-dd	

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5   Appendix A - Subscription Type Values

Value	Description
0	12 Month
1	6 month
3	Trial (3 month)
4	3 Month
5	Demo (12 month)
6	R&D (12 month)
7	PAYS
14	4 Month
15	5 Month
17	7 Month
18	8 Month
19	9 Month
20	10 Month
21	11 Month
22	Training School (3 month)
23	Training School (6 month)
24	Training School (12 month)

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6 Appendix B – Sample XML file

```xml
<?xml version="1.0" ?>
<SalesReport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="https://icenctrial-public.sharepoint.com/Documents" xmlns:xsd="http://www.w3.org/2001/XMLSchema" SchemaVersion="1.0" xsi:schemaLocation="https://icenctrial-public.sharepoint.com/Documents SalesReport.xsd">
  <ReportHeader>
    <ReportType>1</ReportType>
    <ReportPeriodStartDate>2014-11-10</ReportPeriodStartDate>
    <ReportPeriodEndDate>2015-01-10</ReportPeriodEndDate>
  </ReportHeader>
  <VAR>
    <VARID>9999990001</VARID>
    <ContactEmail>john.smith@mycompany.com</ContactEmail>
    <Distributor>
      <DistributorID>20000</DistributorID>
      <DistributorName>A.N.Distributor</DistributorName>
      <CustomerID>12345</CustomerID>
      <CustomerName>N.E.Customer</CustomerName>
      <Vessel>
        <VesselID>XXX 12345</VesselID>
        <VesselName>My Vessel</VesselName>
        <IMOReferenceNumber>IMO1234567</IMOReferenceNumber>
        <PONumber>OurRef 999</PONumber>
        <Subscription>
          <ProductID>AR201149</ProductID>
          <SubscriptionType>15</SubscriptionType>
          <SubscriptionStartDate>2014-09-01</SubscriptionStartDate>
          <SubscriptionEndDate>2015-01-31</SubscriptionEndDate>
        </Subscription>
      </Vessel>
    </Distributor>
  </VAR>
</SalesReport>
```

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