

IS-XML Structure and Interface Specification for Maintenance, Repair and Overhaul service providers

September 2014

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1. Introduction

The Integrated Settlement (IS) platform aims to simplify billing, and remove paper from the entire process, delivering tangible financial benefits to the industry. "IS" is based on the principles of completely paperless billing, invoicing, and settlement.

1.1. Purpose of this Document

The purpose of this document is to provide details about the IS-XML Structure and Interface Specification to be used by Maintenance, Repair and Overhaul service providers (MROs) to participate in IS.

This document describes the interface file formats and explanation of the various record structures including the validation checks that would be carried out on them.

The intended audience of this document includes:

- User's IT Department
 To understand the impact of the changes to the Billing and Settlement process due to IS
- Financial System Providers
 - To understand the interfacing requirements for billing Miscellaneous invoices and to carry out automated posting and reconciliation
- Finance Department of the Participants
 To understand and assess the impact of potential changes to the existing business
 processes

This document is not a User Guide. Hence it does not contain details of how the User will interact with the online interface provided by IS. The User Guide document is available on the IS website (<u>www.iata.org/sis</u>).

2. Miscellaneous Billings – Impact of IS on Financial Accounting

2.1. Overview

The IS-XML Invoice Standard is based on the existing IATA Aviation Invoice standard and enhanced to meet the requirements of SIS.

Refer to the following documents used to define IS-XML:

- IS P3 IATA IS-XML Invoice Standard V3.4.xls: defines the structure and layout of the elements within the IS-XML specification.
- IATA_IS-XML_Standard_Base_Datatypes_V3.4.xsd: defines the balS data types used in the schema
- IATA_IS-XML_Standard_Main_Dictionary_V3.4.xsd: the standard dictionary
- IATA_IS-XML_ Standard_Custom_Dictionary_V3.4.xsd: Some elements of the standard are partly open ended, partly dictionary defined. The part that is dictionary defined is documented in the standard dictionary. In the custom dictionary, an implementer can document the additional values that his organization wants to use for these fields.
- IATA_IS-XML_Invoice_Standard_V3.4.xsd: the schema for the IS-XML Invoice Standard itself

These schemas have been published on the IS website.

Today, Miscellaneous Billings is mainly a paper based process. There is no mechanism to exchange the invoice information in an electronic format. As part of IS, the various types of Miscellaneous Invoices were analyzed and categorized into different groups. The data requirement of each type of Miscellaneous invoice was defined. The existing IATA Aviation Invoice XML standard was extended to support the electronic exchange of different types of Miscellaneous Invoices.

This section describes the Miscellaneous Invoice types relevant to MROs that will be supported by IS.

2.2. Invoice Types Overview

The Miscellaneous invoices have been combined into "Charge Codes" which are further grouped under the appropriate "Charge Category".

Charge Category:

- Distinguishes the broad category of services being billed on an invoice.
- Used by the recipient to decide which IT system or department needs to receive the invoice (work flow)
- For e.g.: Engineering

Charge Code:

- Specifies the nature of the service charged within a Charge Category
- For e.g.: *MRO Maintenance, MRO repairs and Overhauls* services within Charge Category *Engineering*

A Miscellaneous Invoice in IS can have only one Charge Category but one or more Charge Codes associated with the specific Charge Category.

The combination of Charge Category and Charge Code will determine the fields to be used for account posting and reconciliation. The following sections give a

- Description of the Charge Category (the charge category relevant to MROs is Engineering. For other charge categories, refer to the <u>Integrated Settlement</u> <u>Participation Guide</u>)
- Charge Codes under each Category (only the charge codes relevant to MROs. For other charge codes refer to the <u>Integrated Settlement Participation Guide</u>)
- Description of Charge Code
- Mandatory & Recommended Fields for the combination of Charge Category & Charge Code. These fields are required over and above the other Mandatory and Legal Fields defined in the IS-XML Specification. The listing of these fields is given below: These are referred to as "Generic Fields" in the IS-XML Specification

TransmissionHeader

TransmissionDateTime Version BillingCategory Invoice InvoiceHeader InvoiceNumber InvoiceDate InvoiceType ChargeCategory SellerOrganization OrganizationID LocationID** ContactName*** ContactDetails*** ContactType*** ContactValue*** Description*** **BuverOrganization** OrganizationID LocationID** ContactName*** ContactDetails*** ContactType*** ContactValue*** Description*** **PaymentTerms** CurrencyCode SettlementMethod **ISDetails** DigitalSignatureFlag Attachment **AttachmentIndicatorOriginal** LineItem LineItemNumber ChargeCode Description StartDate EndDate Quantity @UOMCode

6/23

UnitPrice @SF ChargeAmount @Name TotalNetAmount InvoiceSummary LineItemCount TotalLineItemAmount TotalAmount TransmissionSummary InvoiceCount TotalAmount @CurrencyCode

** If the Invoice reference data is to be taken from a Location ID defined in the Member Profile, then this field should be populated. This is not required if the reference data is derived from the 'Main' Location ID.

***These fields are optional and may be provided if there is a need to state the contact name and details of the Billing/Billed Entity. Note these fields are not a part of the Location ID definition and hence will have to be provided even if the Location ID has been stated.

Mandatory and Recommended Fields based on Charge Category-Charge Code combination

Mandatory fields based on Charge Category-Charge Code combination are those which are required on an invoice to enable automatic reconciliation for the Billed Entity. The invoice will fail validation if these Mandatory values are not provided. These fields are listed in the next section. This facility is provided to allow Users sufficient time to enhance their financial systems to provide the relevant data. The e-Invoicing Standards Working Group will review this process from time to time and decide when such a practice should be discontinued.

The following default values (or **Substitutions**) are currently permitted:

Mandatory field	Substitutes allowed
If a Mandatory field is such that an Alphabetic or Alphanumeric set of characters are expected (For e.g. Aircraft Registeration Number)	Numeric value zero '0' can be used as a substitute
If a Mandatory field is such that a Date value is expected (For e.g. Flight Date)	Default date 01/01/2000 can be used as a substitute
If a Mandatory field is such that a Numeric value is expected (For e.g. Passenger Count)	Numeric value zero '0' can be used as a substitute

The fields which allows for substitutions are listed in the IS-XML Specification. Note: Substitutions are only allowed for Mandatory fields at the LineItemDetails level. Substitution will be removed in IS future release (The final date will be decided by the einvoicing working group in May 2013 and communicated to the industry with six months notice).

Recommended fields based on Charge Category-Charge Code combination are those which add to the data in the Mandatory fields, and enable further allocation to subaccounts, or cross-referencing with Approval Systems. An invoice that contains these items is more likely to be processed automatically by the receiving airline without manual intervention. Invoices that are submitted without data for the Recommended fields will not fail validation unless if there are any other error in the Invoice. Recommended fields will become Mandatory over a period of time as determined by the e-Invoicing Standards Working Group. However there are certain fields that are marked as 'Recommended Always' which will always remain as recommended forever.

The master Engineering table for Charge Category & Charge Codes should be defined as stated in table below.

Charge Category	Charge Codes
Engineering	Handling LM
	Lease
	Loans
	Misc
	MRO Maintenance
	MRO Repairs and Overhaul
	Pool
	Sales and Purchase
	Ramp Handling

2.2.1. VAT related Misc invoices:

Please note that in case of VAT invoice the field tax category must be filled with one of the following information: Standard / Zero / Higher / Lower / Exempt / OutofScope/ Reverse Charge.

2.2.2. Charge Category – Engineering

Charges due to services provided for handling/ servicing of aircraft will be invoiced under this category.

The charge code relevant to MROs in this category are:

2.2.2.1. Charge Code: MRO Maintenance

Engineering heavy maintenance for airframes, provided at a main service base while the aircraft is not operating a schedule – also known as base maintenance or hangar maintenance. Includes any hangar or other costs directly associated with the heavy maintenance services provided.

Fields required:

Mandatory Fields:

- Aircraft Registration Number
- Location Code (Airport/ Location where service was provided)

Recommended Fields:

- PO Number (Purchase Order Number)
- PO Line Item Number (The line item in the Purchase Order to which the charge in the invoice corresponds)

2.2.2.2. Charge Code: MRO Repairs and Overhaul

Charges for the maintenance, repair or servicing of aircraft engines, rotables and other repairable parts. Includes both component maintenance and engine maintenance.

Fields required:

Mandatory Fields:

- Location Code (Airport/ Location where service was provided)
- Part Number (Number of the Part supplied. For a controlled part, the individual serial number should be used. For other parts, the manufacturer or supplier part number should be used. For consumables the manufacturer or supplier part number should be used. Where no part number is available for consumables, write 'Unknown')

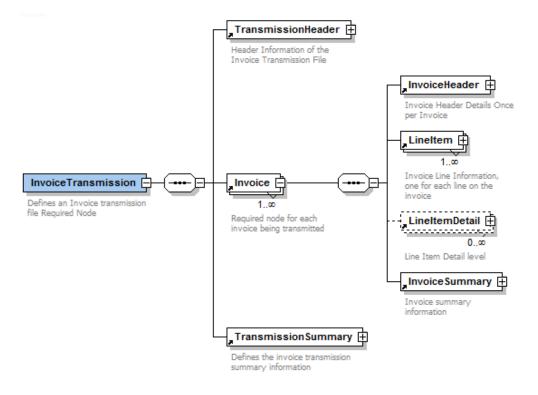
Recommended Fields:

- Aircraft Registration Number
- PO Number (Purchase Order Number)
- PO Line Item Number (The line item in the Purchase Order to which the charge in the invoice corresponds)

Note: There could be addition of new fields in the future. Hence, all are advised to make their systems flexible to be able to incorporate these changes.

2.2.3. IS-XML

The structure of the IS-XML file is as shown below:



Transmission Header

The Transmission header element contains header level data that describes the transmission. There is only one instance of this element for each transmission.

Invoice

The Invoice element is the main component business wise of a transmission. There can be multiple invoice elements for each transmission. The Invoice element contains four main elements:

Invoice Header

• Provide header information about the invoice

Line Item

- In one invoice several types of services and products can be invoiced (one per line item)
- Each Invoice element contains one (at least) or more line item elements.
- The line item provides a summary-level data for line item detail elements.

Line Item Detail

- The detail information is quite specific of the type of product and service being invoiced.
- It contains detailed data about each line item element.
- The line item detail information provides the customer with all information needed to reconcile the amount being invoiced in each line item. This is very much what can be found in the supporting documents in the paper world.

Invoice Summary

• It provides summary information for each invoice.

Transmission Summary Element

This element will be used by the recipient of the electronic message to make some validation and ensure that the data has not been damaged during its creation or transfer. It contains totals for the overall transmission.

Refer to Chapter 2 - Section 2.1 for details of the IS-XML Record Structure

The IS-XML file can be provided on a daily balS to IS. There is no restriction on the number of IS-XML files that can be submitted in a day. The output IS-XML file will be generated on a weekly basis.

Note:

- 1. It is recommended that, where possible, the User standardizes on the IS-XML for all of electronic invoices. This includes suppliers and any other einvoicing companies.
- 2. It is recommended that User's system is developed so that all fields in the standard are available to be used. While the fields may not be considered mandatory, or even optional, today for a given charge category/code it is possible that:
 - As a billed participant, you might receive data in one of the fields that isn't currently optional or mandatory for that given charge Category/Code; or
 - b. A field may be made optional or mandatory for that given Charge Category/Code

2.3. Note on AddOnCharges and Tax Information

2.3.1. AddOnCharges

AddOnCharges are additional charges or deductions that can be applied to a service provided on an Invoice. This charge can be applied on the Line Item details level (applicable for individual sub-service provided within a Charge code) and/or at the Line Item Level (applicable for all sub-services within a Charge Code) and/or at the Invoice Level (applicable for all Charge Codes listed on an invoice).

Listed below are few examples which illustrate how the AddOnCharges need to be defined in the IS-XML file. The same is also applicable for capturing the details on IS-WEB.

The following should be ensured while providing the AddOnCharge detail.

- 1. Nodes should be mutually exclusive. This means that if an 'AddOnCharges' node has been provided at the Line Detail level, the details SHOULD NOT be repeated at the Line Item level or Invoice Summary level.
- 2. The details of the AddOnCharge applied at the Line Item Detail level should be provided in an 'AddOnCharges' node at the Line Item Detail level only.
- 3. The details of the AddOnCharge applied at the Line Item level should be provided in a 'AddOnCharges' node at the Line Item level only.
- 4. The 'AddOnChargeAmount' of all 'AddOncharges' nodes at the Line Item Detail level and the 'AddOnChargeAmount' of all 'AddOnCharges' nodes at that Line Item level should be summed up and added to the field 'TotalAddOnChargeAmount' of that Line Item level.
- 5. The details of the AddOnCharge applied at the Invoice level should be provided in a 'AddOnCharges' node at the Invoice level only.
- 6. The summation of the value of the field 'TotalAddOnChargeAmount' at all Line Item levels and 'AddOnChargeAmount' at the Invoice level should be added to the field 'TotalAddOnChargeAmount' at the Invoice Summary level.

Example 1: Engineering MRO-Repairs & Overhaul (Additional charges at the line item detail level and invoice level)

Charge Category: Engineering Charge Code: MRO-Repairs&Overhaul

Line #	Description	Charge Amount	Additional Charge	Net Amount	
1	Fixed Labor Charge	\$600.00		\$600.00	
2	Material Consumption	\$300.00	\$100.00	\$400.00	
		\$900.00	\$100.00	\$1000.00	
Invoic	-\$45.00				
Invoic	\$955.00				

- Line Item detail #1: Fixed Labor Charge without any additional charge
- Line Item detail # 2: Material Consumption. This is made up of two detail items. An additional handling fee is applicable on the details of line item # 2.
- 5% discount on the Total Charge Amount applicable at the invoice level.

Breakdown information on IS-XML:

Line item detail level:

There will be one AddOnCharges node in the line item detail level: (There is no base amount and percentage stated as this is a flat fee.) Line Item Detail #2 AddOnCharges AddOnChargeName: Handling Fee AddOnChargeAmount: 100.00

Line item level:

There will be no AddOnCharges node in the line item level to show the Handling Fee applied at the detail level.

The field 'TotalAddOnChargeAmount' = \$100.00 i.e. Summation of the Additional Charge at the line item level (\$0.00 as there are no additional charge at this level) and the Handling Fee (\$100.00) at the line item detail level.

Invoice Summary Level:

There will be one AddOnCharges node to show the discount applicable on the invoice: AddOnCharges

AddOnChargeName: Discount AddOnChargePercentage: -5% AddOnChargeableAmount: 900.00 AddOnChargeAmount: -45.00

The field 'TotalAddOnChargeAmount' in the invoice summary level = \$ 55.00 (\$100 - \$45)

Example 2: Engineering MRO-Repairs & Overhaul (Additional charges at the line line item and invoice level)

Charge Category: Engineering Charge Code: MRO-Repairs&Overhaul

Line #	Description	Charge Amount	Additional Charge	Net Amount
1	Fixed Labor Charge	\$600.00		600.00
2	Material Consumption	\$300.00		300.00
Line Total		\$900.00	\$100.00 Handling Fee	1000.00
Invoice Disco	-50.00			
Invoice Total	950.00			

- Line Item Detail #1: Fixed Labor Charge with no Additional Charge
- Line Item Detail # 2: Material Consumption with no Additional Charge
- Handling Fee of \$100.00 at the Line Item level
- 5% discount applicable at the invoice level.

Breakdown information on IS-XML:

Line Item Details level:

There will be one AddOnCharges nodes in the line item details level: (There is no base amount and percentage stated as this is a flat fee.)

Line Item Level

AddOnCharges AddOnChargeName: Handling Fee AddOnChargeAmount: 100.00

The field 'TotalAddOnChargeAmount' = \$ 100.00

Invoice Summary Level:

There will be one AddOnCharges node to show the discount applicable on the invoice:

AddOnCharges

AddOnChargeName: Discount AddOnChargePercentage: -5% AddOnChargeableAmount: 1000.00 AddOnChargeAmount: -50.00

The field 'TotalAddOnChargeAmount' in the invoice summary level = \$ 50.00 (\$100 from Line Itme level - \$50 from Invoice Level)

Example 3: Engineering MRO-Repairs & Overhaul (Additional charges at the line item details, line item and invoice level)

Charge Category: Engineering Charge Code: MRO-Repairs&Overhaul

Line #	Description	Charge Amount	Additional Charge	Net Amount
1	Fixed Labor Charge	\$600.00	10% discount (-\$60.00)	540.00
2	Material Consumption	\$300.00	-\$15.00	285.00
2		φ000.00	discount	200.00
Line Total			\$100.00	025.00
Line Total	Handling Fee		925.00	
Invoice Disco	-92.50			
Invoice Total	832.50			

- Line Item Detail #1: Fixed Labor Charge with 10% Discount
- Line Item Detail # 2: Material Consumption with a discount of \$15
- Handling Fee of \$100.00 at the Line Item level
- 5% discount applicable at the invoice level.

Breakdown information on IS-XML:

Line Item Details level:

There will be twoAddOnCharges nodes in the line item details level:

LineItemDetail #1

AddOnCharges

AddOnChargeName: Discount AddOnChargePercentage: -10% AddOnChargeableAmount: 600.00 AddOnChargeAmount: -60.00

LineItemDetail #2 (There is no base amount and percentage stated as this is a flat fee.)

AddOnCharges AddOnChargeName: Discount AddOnChargeAmount: -15.00

Line Item Level

AddOnCharges AddOnChargeName: Handling Fee AddOnChargeAmount: 100.00 The field 'TotalAddOnChargeAmount' = \$ 25.00 (\$100 of Line Item - \$60 of LineItemDetail1 - \$15 of LineItemDetails2)

Invoice Summary Level:

There will be one AddOnCharges node to show the discount applicable on the invoice:

AddOnCharges

AddOnChargeName: Discount AddOnChargePercentage: -10% AddOnChargeableAmount: 925.00 AddOnChargeAmount: -92.50

The field 'TotalAddOnChargeAmount' in the invoice summary level = \$ 67.50 (\$100 from Line Itme level - \$60 from Line Item Details1 - \$15 from Line Item Details1 - \$92.50 from Invoice Level)

2.3.2. Tax/ VAT Information

Tax/ VAT can also be applicable on multiple levels. Hence Tax/ VAT can be applied on the Line Item details level (applicable for individual sub-service provided within a Charge code) and/or at the Line Item Level (applicable for all sub-services within a Charge Code) and/or at the Invoice Level (applicable for all Charge Codes listed on an invoice).

The following should be ensured while providing the Tax/ VAT detail.

- 1. Nodes should be mutually exclusive. This means that if a 'Tax' node has been provided at the Line Item Detail level, the details SHOULD NOT be repeated at the Line Item level or Invoice Summary level.
- 2. The details of the VAT/ Tax applied at the Line Item Detail level should be provided in a 'Tax' node at the Line Item Detail level only.
- 3. The details of the VAT/ Tax applied at the Line Item level should be provided in a 'Tax' node at the Line Item level only.
- 4. Where TaxType=Tax, the 'TaxAmount' of all 'Tax' nodes at the Line Item Detail level and the 'TaxAmount' of all 'Tax' nodes at that Line Item level should be summed up and added to the field 'TotalTaxAmount' of that Line Item level.
- 5. Where TaxType=VAT, the 'TaxAmount' of all 'Tax' nodes at the Line Item Detail level and the 'TaxAmount' of all 'Tax' nodes at that Line Item level should be summed up and added to the field 'TotalVATAmount' of that Line Item level.
- 6. The details of the VAT/ Tax applied at the Invoice level should be provided in a 'Tax' node at the Invoice level only.
- 7. The summation of the value of the field 'TotalTaxAmount' at all Line Item levels and 'TaxAmount' (Tax nodes where TaxType=Tax) at the Invoice level should be added to the field 'TotalTaxAmount' at the Invoice Summary level.
- 8. The summation of the value of the field 'TotalVATAmount' at all Line Item levels and 'TaxAmount' (Tax nodes where TaxType=VAT) at the Invoice level should be added to the field 'TotalVATAmount' at the Invoice Summary level.

Listed below are few examples which illustrate how the VAT/ Tax need to be defined in the IS-XML file. The same is also applicable for capturing the details on IS-WEB. Please note that the example below shows VAT but the same process has to be used for Tax.

Example 1: VAT applicable at the Line Item Detail Level only

Assumptions:

- Line Item Detail Charge Amount = \$ 1000
- VAT @ 10% applicable only on the Line Item Detail level Charge Amount

How to provide the VAT amount in input file

 Detail of this VAT should be stated in the Tax Node (indicating TaxType = VAT) at the Line Item Detail level ONLY as shown below.

Tax TaxType: VAT TaxSubType: VAT TaxText: VAT @10% TaxPercent: 10 TaxableAmount: 1000.00 TaxAmount @Name: 100.00 (Attribute 'Name' is NOT used for Miscellaneous Billing Category)

- The 'Tax' Nodes present at the Line Item and Invoice Summary levels will not repeat the VAT breakdown details provided at the Line Item Details level. In case any amount of the invoice is exempt from VAT, these will be provided in the 'Tax' node at the Invoice Summary level.
- The calculated 'TaxAmount' (\$100) should be added to the field 'TotalVATAmount' which is present at the Line Item Level. Hence the value of this field 'TotalVATAmount' is '100.00'.
- The amount in the 'TotalVATAmount' field at the Line Item level should be added to the field 'TotalVATAmount' which is present at the Invoice Summary Level. Hence the value of this field 'TotalVATAmount' is '100.00'.

Example 2: VAT applicable at the Line Item Detail Level and Line Item Level only

Assumptions:

- Line Item Charge Amount = \$5000.00
- Line Item Detail Charge Amount = \$ 1000
- VAT @ 5% applicable on the Line Item level Charge Amount
- VAT @ 10% applicable on the Line Item Detail level Charge Amount

How to provide the VAT amount in input file

• Detail of the Line Item level VAT should be stated in the Tax Node (indicating TaxType = VAT) at the Line Item level ONLY as shown below.

Tax TaxType: VAT TaxSubType: VAT TaxText: VAT @ 5% TaxPercent: 5 TaxableAmount: 5000.00 TaxAmount @Name: 250.00

• Detail of the Line Item Detail level VAT should be stated in the Tax Node (indicating TaxType = VAT) at the Line Item Detail level ONLY as shown below.

Tax TaxType: VAT TaxSubType: VAT TaxText: VAT @10% TaxPercent: 10 TaxableAmount: 1000.00 TaxAmount @Name: 100.00

• The calculated 'TaxAmount' (\$100) at the Line Item Detail level and the 'TaxAmount' (\$250) at the Line Item Level should be added to the field

'TotalVATAmount' which is present at the Line Item Level. Hence the value of this field 'TotalVATAmount' is '350.00'.

- The tax details provided at the Line Item Detail as well we Line Item level wil not be repeated at the Invoice Summary level. In case any amount of the invoice is exempt from VAT, these will be provided in the 'Tax' node at the Invoice Summary level.
- The amount in the 'TotalVATAmount' field at the Line Item level should be added to the field 'TotalVATAmount' which is present at the Invoice Summary Level. Hence the value of this field 'TotalVATAmount' is '350.00'.

Example 3: VAT applicable at the Invoice Level, Line Item Detail Level and Line Item Level

Assumptions:

- Invoice Total Line Item Amount = \$5000.00
- Line Item Charge Amount = \$5000.00
- Line Item Detail Charge Amount = \$ 1000
- VAT @ 3% applicable on the Invoice level Total Line Item Amount
- VAT @ 5% applicable on the Line Item level Charge Amount
- VAT @ 10% applicable on the Line Item Detail level Charge Amount

How to provide the VAT amount in input file

• Detail of the Invoice level VAT should be stated in the Tax Node (indicating TaxType = VAT) at the Invoice Summary level ONLY as shown below.

Тах

TaxType: VAT TaxSubType: VAT TaxText: VAT @ 3% TaxPercent: 3 TaxableAmount: 5000.00 TaxAmount @Name: 150.00

• Detail of the Line Item level VAT should be stated in the Tax Node (indicating TaxType = VAT) at the Line Item level ONLY as shown below.

Tax TaxType: VAT TaxSubType: VAT TaxText: VAT @ 5% TaxPercent: 5 TaxableAmount: 5000.00 TaxAmount @Name: 250.00

• Detail of the Line Item Detail level VAT should be stated in the Tax Node (indicating TaxType = VAT) at the Line Item Detail level ONLY as shown below.

Tax TaxType: VAT TaxSubType: VAT TaxText: VAT @10% TaxPercent: 10 TaxableAmount: 1000.00 TaxAmount @Name: 100.00

• The calculated 'TaxAmount' (\$100) at the Line Item Detail level and the 'TaxAmount' (\$250) at the Line Item Level should be added to the field

'TotalVATAmount' which is present at the Line Item Level. Hence the value of this field 'TotalVATAmount' is '350.00'.

• The amount in the 'TotalVATAmount' field at the Line Item level and the calculated 'TaxAmount' at the Invoice level should be added to the field 'TotalVATAmount' which is present at the Invoice Summary Level. Hence the value of this field 'TotalVATAmount' is '500.00'.

VAT EXEMPT AMOUNT:

Amount on which VAT has not been applied should be stated at the invoice level as 'VAT Exempt' amount.

Display of VAT on PDF:

VAT applied at all levels will be grouped by the following fields and shown on the PDF.

- VAT Sub Type
- VAT Category
- VAT Percent
- VAT Text

Display of Tax and AddOnCharge on PDF:

- Note that Tax and AddOnCharges will NOT be grouped and shown on PDF invoice.
- Each Tax/ AddOnCharges node applied at the Line Item and Invoice Levels will be shown as a separate row on the PDF invoice.
- The details of the Tax and AddOnCharges applied at the Line Item Detail level will be shown in the Detail Listing report.
- However, only the summed up amount of all related Line Item Details for a Line Item will be shown as a separate single row on the PDF invoice.

This is explained with the help of an example below:

Assumptions:

In an invoice there is one line item and this line item has two line item details. The amounts and the various AddOnCharges and VAT that are applicable on this invoice at various levels are as stated below.

Line Item Detail Level:

- Line Item Detail # 1 Charge Amount = \$ 3000
- AddOn Charge @ 5% applicable on Line Item Detail # 1 Charge Amount = \$ 150
- VAT @ 10% applicable on both the Line Item Detail level Charge Amount = 10% on 3150 = \$315
- Line Item Detail # 1 Net Amount = \$ 3465
- Line Item Detail # 2 Charge Amount = \$ 2000
- AddOn Charge @ 10% applicable on Line Item Detail # 2 Charge Amount = \$ 200
- VAT @ 10% applicable on both the Line Item Detail level Charge Amount = 10% on 2200 = \$220
- Line Item Detail # 1 Net Amount = \$ 2420

Line Item Level: The amounts at the Line Item details are summed up and shown in the Line Item level along-with the AddOnCharge and VAT applicable at the Line Item Level

• Line Item Charge Amount = \$5000

- AddOn Charge @ 5% applicable on Line Item Charge Amount = \$250
- TotalAddOnChargeAmount = 250+150+200 = \$600
- VAT @ 10% applicable on the Line Item level Charge Amount + AddOn Charge Amount = 10% on \$5250 = \$525
- TotalVATAmount = 525+315+220 = \$ 1060
- Line Item Net Amount = \$ 6660

Invoice Level: The amounts at the Line Item are summed up and shown in the Invoice Level along-with the AddOnCharge and VAT applicable at the Invoice Level

- Invoice Total Line Item Amount = \$6660
- VAT @ 5% applicable on the Invoice level Line Item Amount = 5% on \$6660 = \$333
- Invoice Total Amount = \$6993

The above is represented as shown in the PDF below. You will note that the VAT has been grouped and shown while the AddOnCharges have been shown as they were applicable. The breakdown of the AddOnCharge applied at the Line Item Detail level has not been shown in this PDF; only the amount has been shown. The breakdown will be provided in the Detail Listing report.

	nerico			Miscell	aneous	Invoi	ice				Digital	ly Signed
					Invoice #							
	Billing Entity		vays Public Ltd						Billed		KLM Royal Du	tch Airlines
ntity Desi	gnator & Num. Code	CY-048			Date Month/Yea	25-Jun-20 Jun-09	09	Entity Desig	gnator & Num		KL-074	
	Location ID	CY0001								tion ID	KL0001	
	Contact Person	James		C	Perioc harge Category		andling		Contact		Rene	
	Street	21 Alkeou :	street				anding			Street	PO Box 7700	
	City	Engomi Nicosia			irrency of Billing					City	1177, Schiph	101 Arpt
	Prov/ State/Region	14100010		Set	ttlement Method				Prov/ State/			
	Zip/Postal Code	CY-2404			PO Number	ABC123			Zip/Posta	-	7700	
	Country	Cyprus			Location Code					ountry	Netherlands	
Tax	VAT Registration #	CY 100003	141	Т	ransmitter Code			Тах	VAT Registra		NL004983269	B01
Tux/	TAT Registration #	01 100005		Tr	ansmitter Name			Tu,	a rai negistri		112001705207	
Com	oany Registration #	egistration # 314			Attachments	Yes		Cor	npany Registr	ation #	33014286	
com	surfy negistration #			Line Item Details		s No		company negistration #		5501 1200		
Line #	Service 01-Jun-2009 to 20-Jun-2009	Code Ramp Handling	Code	Description Ramp Handling Charges	Quantity 1	Measure EA	Price 5000.00	Amount 5000.00	Amount 600.00	Tax	VAT 1060.00	Amount 6660.00
					Line	Item Sub To	tal	5000.00	600.00		1060,00	6660.00
					Invoice Add	itional Amou	unt					
					Invoid	e TAX Amou	int					
					Invoice	VAT Amou	nt					333.00
				Tota	al Due in Curr	ency of Bill	ing		USD			6,993.0

Generico		Miscellaneous Inv	voice		Digitally Signed
Billing Entity	Cyprus Airways Public Ltd	Invoice # MI12307890 Date 25-Jun-2009		Billed Entity	KLM Royal Dutch Airlines
VAT Breakdown	Label	VAT Text	Base Amount	VAT Rate	VAT Amount
	VAT	VAT @ 5%	6660.00	5%	333.00
	VAT	VAT @ 10%	10600.00	10%	1060.00
Additional Amount Breakd	own Level	Additional Amount Name	Chargeable Amount	Charge Rate	Additional Amoun
	Line 1 Line 1 Details	Handling Charges	5000.00	5%	250.00 350.00
) NOT PAY. SETTLEMENT T	THROUGH CLEARING HOUSE.				
Logal Taxt Place	eholder that will be required.				

3. Glossary

Term	Definition
АТА	(Air Transport Association) – The trade group for U.Sbased
	airlines.
Audit trail	A chronological sequence of audit records.
Billed Entity	The Billed Airline or Supplier
Billing Category	The Category of the Integrated Billing Invoice. The billing
	category for MROs is Miscellaneous The Billing Date field refers to the month period of settlement.
Billing Date	This field is referred extensively in RAM chapter A13 in case
Diming Date	of Miscellaneous billings.
Billing Entity	The Billing Airline or Supplier
	The Numeric code of the Billing airline or the Alpha numeric
Billing Entity Code	code of the Supplier
	Billing Period refers to the Period of the Clearance Month
Pilling Deried	used for billing. As the current Integrated settlement is on a
Billing Period	weekly basis, there are 4 periods in a month. The billing
	period is represented as 01, 02, 03 and 04.
	This is the data store within IS which will maintain the Invoice
Billing Record Database	data provided by IS Participants in IS-Format. The data is kept
	in the system till the time the transactions are expired.
	Central File Repository is the data store within IS which
Central File Repository	maintains the input and output files including the Supporting
	documents for the billing transactions.
Charge Category	The major types of Miscellaneous Invoice billed between carriers
	The sub group within the Charge Category which identifies the
Charge Code	different reasons for the Miscellaneous Invoice claim.
Clearance Month	It represents the month of Integrated Billing.
CSV File	Comma separated file
	This is the second phase of the IS-Validation process in which
Detailed Validation	the billing data is loaded in the Billing Record Database and
	each and every data element in the billing data is validated.
	Digital Signature is a mathematical scheme for demonstrating
	the authenticity of a digital message or document. A valid
Digital Signature	digital signature gives a recipient reason to believe that the
	message was created by a known sender, and that it was not
	altered in transit
DS	Digital Signature
	E-archiving is an optional service provided by SIS. This
E-Archiving	service allows Participants to store digitally signed invoices in an external Legal archive for a longer period as required by
	the local reguations.
EST	Eastern Standard Time
	The file that a carrier uploads to the clearinghouse on a
540	weekly balS to complete settlement. This file does not contain
F12	all billing data; rather it contains the totals of each invoice
	being cleared.
File Naming Convention	Rules followed for construction of the file name
File Naming Convention	
GL	General Ledger
HTML files	Files in Hypertext markup language. HTML is a structured file
	format used in websites, which includes tags.
	This is the time by which ICH Members should submit their
ICH Period Closure Day	Web F12 claims file to the ICH-WEB to be considered for
	settlement.
Index File	An index file contains the mapping information of the various supporting documents and its corresponding Batch Key. There
	1 supporting documents and its corresponding batch key. There

IS-XML e-Invoicing standard for MROs

Term	Definition
	are two formats of index files supported by SIS. These are
	CSV and XML
	Integrated Settlement
IS	Integrated Settlement is the name for the collection of systems which provide the functionality behind Simplified Integrated
	Settlement.
	The Calendar used by IS to trigger various automated
IS Calendar	processes. It also has deadlines for some of the processes
	impacting the end-users of SIS.
IS Calendar Billing Output	This is the date and time stamp by which IS will generate the
Generation Date	billing output files and keep it ready for download,
IS Format	IS Format is a generic term used to define Invoice data provided to IS in either automated formats like or IS-XML or
IS Format	manually over IS-WEB
	IS WEB is the online user interface of the IS System. It allows
IS WEB	users to capture data, pull out reports, as well as configure the
	Member profile information.
	IS XML is the new interface file format defined for MISC . This
IS XML	file format is based on the existing IATA Aviation Invoice
	Standard.
JPEG Image files	Image files in JPEG (Joint Photographic Experts Group)
5	format. Invoices submitted after the IS Submission Deadline but within
	the Late Submission Acceptance Window to be considered for
Late Submission	settlement in the previously close period
Late Submission Acceptance	Time window in which Late Submission can be submitted.
Window	
Location Code	Code of the Member's location.
Location IDs	User defined code that uniquely identifies the Member's
	Iocation in the Member Profile.Centralized functionality that enables the participants to:
	1. Create and Manage Users of IS
Member Profile	2. Configure the various processes within SIS
	3. Set default values to be used at the time of processing
	4.
Participant	An Airline or a Non Airline Entity who is a signatory or a
	potential signatory to IS Services.
Payables	Billing received from other Integrated partners for a billing
PDF	period is referred to as Payables Portable Document Format
	First time billing or billings of original documents (like coupons,
Prime Billing	air waybills) are referred to as Prime Billings
	Module in IS for:
Processing Dashboard	Viewing processing details
	Submitting of invoices/ files for late processing
	Increment the period of the invoices
	Protest is the action taken by a billed entity against an
Protest	erroneous billing done by a billing entity before the amount in
	error is settled by the Clearing House.
RAM	Revenue Accounting Manual
Receivables	Invoices billed to other Integrated partners is referred to as
	Receivables
Deference Date	Reference data relates to the basic legal information of the
Reference Data	Billing and Billed entity. This includes details like the Company Legal Name, Tax Registration ID, Address details etc.
Sanity Check	This is the first phase of IS-Validation, where a file is checked
Carney Onook	

IS-XML e-Invoicing standard for MROs

Term	Definition
	for Construction errors. If an error is encountered in this phase
	the entire file is rejected by SIS.
Settlement Method Indicator	The field Settlement Method Indicator in the Invoice data
	drives the Settlement process of the Invoice.
Submissions Open Date	The date and time from which IS starts accepting Billing Files
Submissions Open Date	for a particular Clearance period
	The additional documentation provided to support Integrated
Supporting Attachments	billing claim. The Supporting Attachments needs to be
	provided in electronic format
Supporting Attachments Linking	The date and time stamp by which the system will stop
Deadline	manual and automated linking of supporting documents for the
Deadline	clearance period
TIFF Image files	Tagged Image File Format (TIFF) is a file format for storing
The image mes	images.
Time Stamp	Sequence of characters, denoting the date and/or time at
	which a certain event occurred
VAT	Value added tax