

IATA Legal Reminders

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! Unauthorized recording of the meeting is also prohibited.

! IATA will record the webinar and share the link afterwards to the members of this group and it will be posted on the SIS Website.



Welcome!

On The Agenda

- Working with IS-XML and IS-IDEC files
- Input File Formats and Record Structures
- Input File Submission and System Response (Outputs)
- Input File Processing and Monitoring
- How to Understand and Correct Validation Errors (Output Files)
- Things to Remember

Enter your Questions in the "Questions" box!

IATA Presenters

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Revenue Accounting I.T. Analyst I.T. Commercial Business Solutions TAP AIR PORTUGAL





Automation with SIS

The SIS Participants have 3 options for submitting as well as receiving billing data in SIS:

- IS-WEB An online interface to manually capture billing information into SIS
- IS-IDEC Enhanced version of the old IDEC file with many new record types
- IS-XML An advanced file format for billing data having all the elements defined in the IS-IDEC file in addition to additional fields for Miscellaneous/Non-Transportation and UATP invoices.

Using files to process your billing data to SIS **enables end to end automation** for sending as well as receiving invoices, allows for **automated processing and reconciliation**, **reduces manual work**, **reduces errors** and **increases efficiency**.

All types of invoices/transactions can be submitted via files, without any limits on the number of invoices per file or number of files per day or period.

The same level of automation can be achieved for all Billing Categories, transaction types (Prime Billings, Rejections, etc.) and file formats.





IS-XML and IS-IDEC file formats

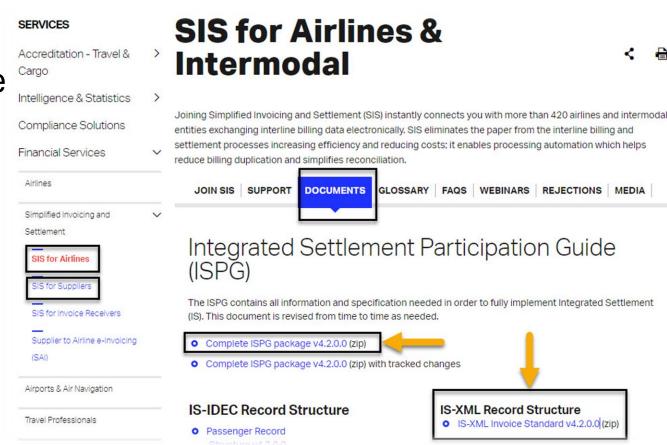
- Sandbox testing & Certification
 - > File naming conventions
 - Files in SIS PROD vs. SIS Sandbox



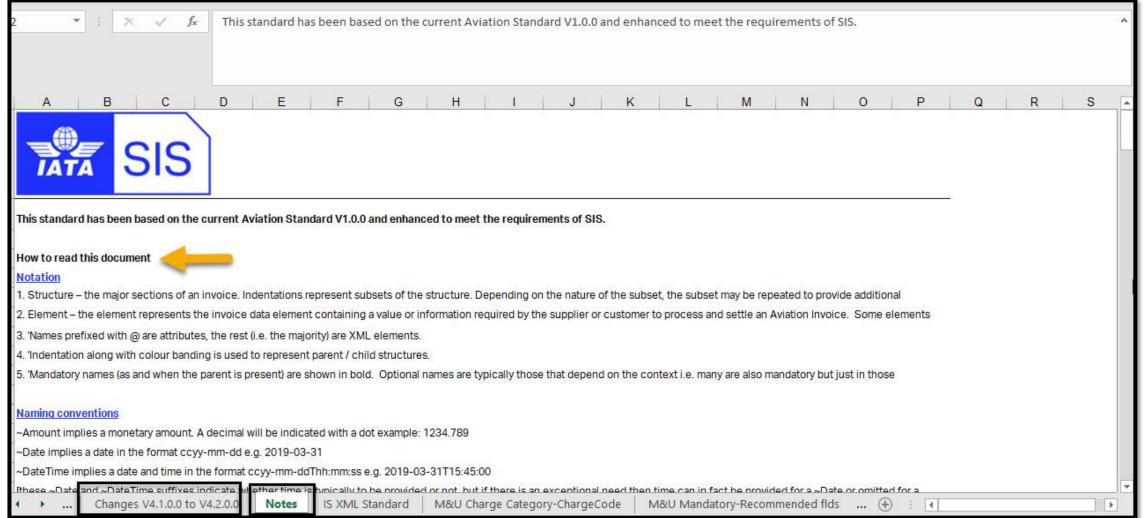


The IS-XML is an IATA EDI standard that allows the exchange of billing and reconciliation information.

- Industry Standard (IS-XML).
- ➤ Included in the <u>ISPG</u> package.
 - Current Version v4.2.0.0.









"IS XML Standard" Tab includes the field value requirements for the multiple levels of each invoice type for all billing categories, such as:

- Occurrence | Type | Size | Billing Category | Dictionary Defined | Values
- > Description | Notes | Recommendations | Validations | etc.

| A B | CDEFGHI J K | L | M | N I | 0 | P | Q | R | S | |
|---------|------------------------------------|-----------------|-------|-------------|-------------------------------|--------------------------|------------------------------------|---|--|---|
| | 1 2 3 4 5 6 7 [level] | Occurrence | Type | Size | Billing Category P/C/M/U/G | Dictionary Defined D/P/N | Attribute Dictionary Defined D/P/N | Values | Description | |
| | voiceTransmission | 1 | | | G | | | _ | Defines an Invoice transmission file Required Node | |
| | TransmissionHeader | 1 | | | G | | | | Header Information of the Invoice Transmission File | |
| 3 | TransmissionDateTime | 1 | DT | | G | N | | | Date and time of transmission of the Invoice file. | This is the local da |
| 4 | Version | 1 | AN | 50 | G | N | | "IATA:ISXMLInvoiceV4.2.0.0" | Current version number of the specification | |
| 5 | TransmissionID | 0-1 | AN | 50 | G | N | | | Unique identifier for the TransmissionMesage. | This will be referent message if used. |
| 6 | IssuingOrganizationID | 0-1 | AN | 25 | G | N | | | Unique identifier for the entity issuing the transmission | Should be a valid la Carrier code Is mandatory for in |
| 7 | ReceivingOrganizationID | 0-1 | AN | 25 | G | N | | | Unique identifier for the entity receiving the transmission | Should be a valid I |
| 8 | BillingCategory | 0-1 | AN | 25 | G | D | | Dictionary defined: Passenger/Cargo/Miscellaneous/UATP | Describes the category of invoices | |
| 9 | TransmissionData @Name | 0-20 | AN | 80 | М | N | N | Attribute 'Name' is Mandatory and open ended 30AN. When the attribute 'Name', equals 'ValRenijNETACID' | Extension fields. Allows modelling customer extension at the | |
| 10 | Invoice | 1-00 | | | G | | | | ************************************** | |
| 11 | InvoiceHeader | 1 | 1 | | G | | | | | |
| 12 | InvoiceNumber | 1 | AN | 30 | G | N | | | Invoice Number | |
| 13 | InvoiceDate | 1 | DT | | G | N | | | Local date for the invoice | |
| 14 | InvoiceType | 1 | AN | 25 | G | D | | Dictionary defined: | Type of invoice as defined in the dictionary | In case of 'Invoice' |
| 15 | TaxInvoiceNumber | 0-1 | AN | 25 | М | N | | | Unique tax invoice number for Tax Jurisdiction | This field is only no - if required for th |
| 16 | TaxPointDate | 0-1 | DT | | M | N | | | Date on which tax is due or calculated. | This field is only n different from the are assumed to be |
| 17 | LocationCode | 0-1 | AN | 5 | M | D | | Dictionary defined: IATA AirportCode or | IATA airport/city code or UN/LOCODE | A location code sh |
| pyright | Changes V4.1.0.0 to V4.2.0.0 Notes | IS XML Standard | M&U.C | harge Cated | jory-ChargeCode M&U Mandat | ory-Recommer | nded flds | UOM Code List Charge Code Type List | (+) | |



M&U (Misc & UATP) "Charge Category-Charge Code" Tab includes:

Structure Elements | Element Occurrence | Type and Size | Charge Category and Codes





M&U (Misc. & UATP "Mandatory and Recommended" fields Tab includes:

Charge Category

Airport

Airport

FlightDateTime

- Charge Category
- Charge Code
- > Field Name, Level, Type, Size
- Mandatory or Recommended

Charge Category

Ground Handling

Ground Handling

Ground Handling

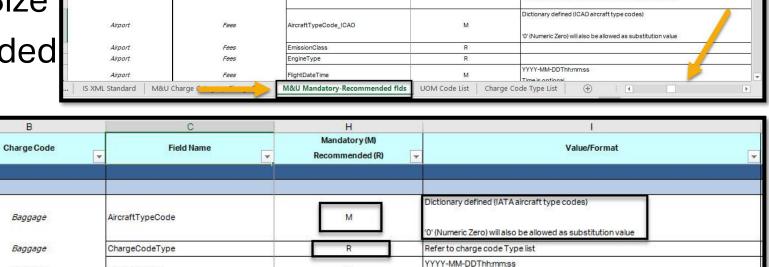
Ground Handling

Ground Handling

Baggage

Baggage

- > The value and/or Format
- Description
- Validation



Time is optional

Mandatory (M)

Recommended (R)

С

Field Name

ocationCode

ChargeCodeType

AircraftRegistrationNo



Value/Format

Registration number of the aircraft with no hyphen between the nationality prefix and

Example: Aircraft Registration no is G-AAAA. This will be provided as GAAAA in the inpu

IATA airport code or UN/LOCODE or city code if non-airport.

'0' (Numeric Zero) will also be allowed as substitution value

Refer to charge code Type list

remaining characters

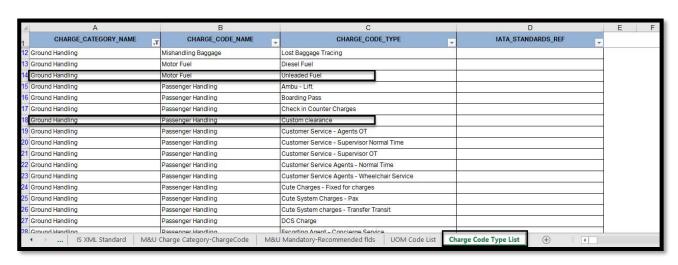
Charge Code

Fees

Charge Code Type List Tab

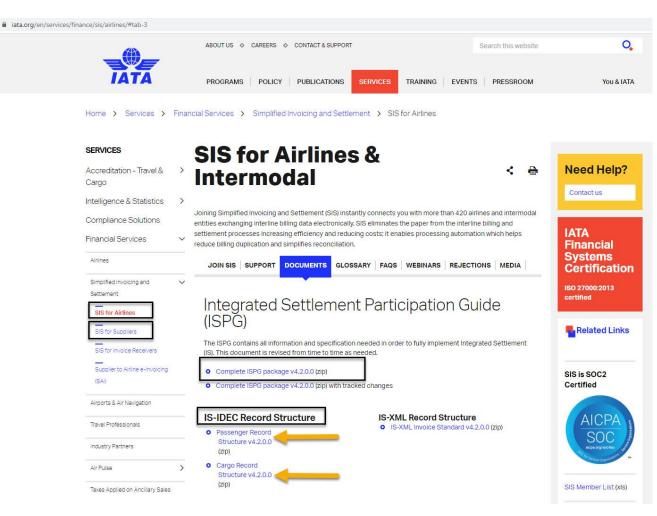
- Charge Category Name
- Charge Code Name
- Charge Code Type
- IATA Standards Reference





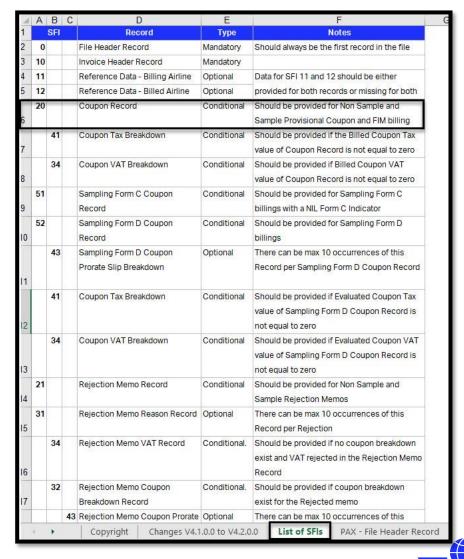


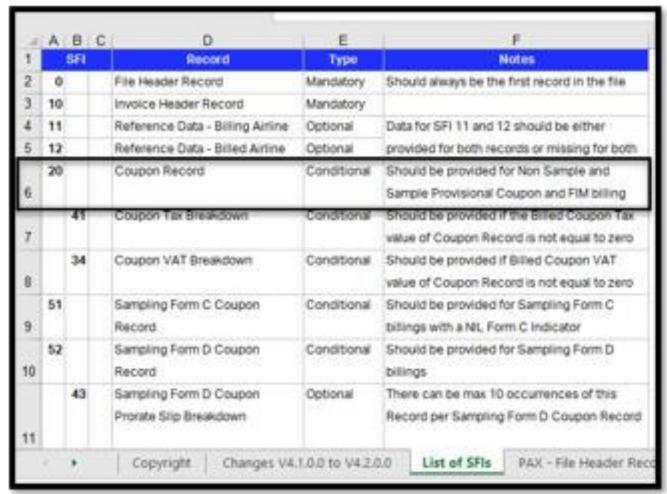
- The IS-IDEC is a text-based file standard that allows the exchange of billing and reconciliation information.
- ➤ Industry Standard (<u>IS-IDEC</u>).
- Included in the <u>ISPG</u> package.
 - Current Version v4.2.0.0.
- ➤ IS-IDEC file standard applies only to the Passenger and Cargo.





- ➤ "List of SFI's" Tab includes the list of "Standard Field Identifiers" that must be used to define the IS-IDEC file record structure / layout.
- > "SFI" numbers are used to assign the multiple "records" (a.k.a "levels") that may be required for each particular invoice type.
- > Advises whether records may be mandatory or conditional or optional.
- Additional "notes" related to each record.

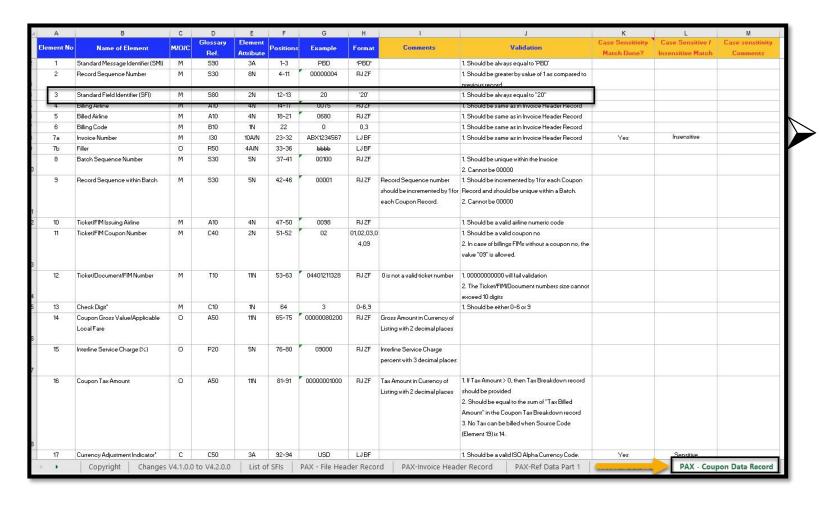




"Records" are referenced by the "SFI" number.



Example when the Record is "Pax Coupon Data Record" the SFI is 20.



Each "Record" will contain different requirements for the different "Fields"



SIS File Formats and Record Structures XML vs. IDEC

| Processes | Input | Input | | |
|--|---------|---------|----------------|--------|
| Flucesses | IS-IDEC | IS- XML | IS-WEB | R50 |
| Passenger | | | | |
| Prime Coupon Billing | X | X | X | |
| Usage File ¹ | 3 | | | X |
| Rejection Memos | X | X | X | |
| Correspondence | | | X | |
| (including Sampling and non-Sampling) | | | ^ | |
| Billing & Credit Memos | X | X | X | |
| Sampling | | | | |
| Provisional Invoice (Form A and B) | X | X | X ² | |
| Provisional Invoice – Consolidated | X | X | | |
| monthly file | | ^ | | |
| Universe Adjustment (Form C) | X | X | X | |
| Sample Finalization (Form D and E) | X | X | X | , |
| Rejection Memos (Form F and XF) | X | X | X | |
| Audit Trail | | | X | |
| Rejection & Correspondence History | | | ^ | |
| Cargo | | | | |
| Original Billing | X | X | X | 8 |
| Rejection Memos | X | X | X | |
| Correspondence | | | X | 7 |
| Billing & Credit Memos | X | X | X | |
| Audit Trail | | | X | |
| Rejection & Correspondence History | | | ^ | |
| Miscellaneous and UATP | 32 32 | · | | X å |
| Miscellaneous | | X | X | |
| Miscellaneous Rejections | | X | X | 7 |
| Miscellaneous Correspondence | | | X | , |
| Audit Trail | | | V | |
| Rejection & Correspondence History | | | X | |

The difference between the IS-XML and IS-IDEC as the two Input and Output formats for submitting and receiving Invoice data in SIS is indicated in Chapter 2.2 of the ISPG.



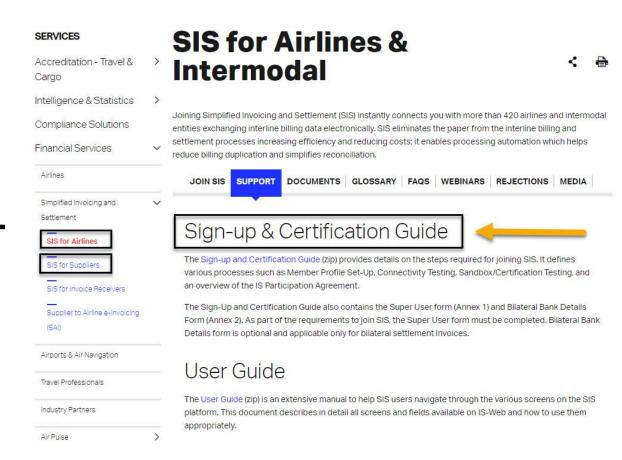
SIS Sandbox Testing and Certification





SIS Sandbox Testing and Certification

- Chapters 4, 5 and 6 of the <u>Sign-up&</u>
 <u>Certification Guide</u>
- > Files can only be uploaded via iiNET
- Certification is required before go live in SIS PROD





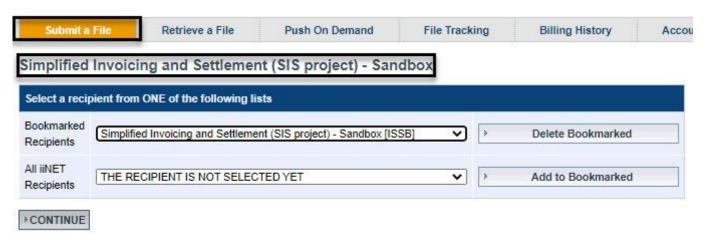
SIS Sandbox Testing – File naming convention

Passenger and Cargo IS-IDEC input files for testing Compressed (39 characters):

ST-AIDECF-BBBCCCCCCCCTTTTTTTTTTT.ZIP

In case of Passenger, Cargo, Miscellaneous and UATP IS-XML input files Compressed (39 characters):

ST-AXMLF-BBBCCCCCCCCTTTTTTTTTTT.ZIP





SIS Sandbox Certification – File naming convention

➤ In case of Passenger and Cargo IS-IDEC input files Compressed (39 characters)

CT-AIDECF BBBCCCCCCCCTTTTTTTTTTTT.ZIP

➤ In case of Passenger, Cargo, Miscellaneous and UATP IS-XML input files Compressed (38 characters)

CT-AXMLF-BBBCCCCCCCCTTTTTTTTTT.ZIP



File submission in SIS PROD

- SIS Production Files will not have any prefix:
 - MXMLF | PXMLF | CXMLF | UXMLF

```
MXMLF-0082021010420210208162717.XML
        ?xml version="1.0"?>
     SinvoiceTransmission xsi:schemaLocation="http://www.IATA.com/IATAAvia
        <TransmissionHeader>
         <TransmissionDateTime>2021-06-22T16:23:12</TransmissionDateTime>
 5
        <Version>IATA:ISXMLInvoiceV3.2</Version>
 6
        <IssuingOrganizationID>008</IssuingOrganizationID>
        <BillingCategory>Miscellaneous</BillingCategory>
        </TransmissionHeader>
        <Invoice>
         <InvoiceHeader>
11
          <InvoiceNumber>183450122</InvoiceNumber>
12
          <InvoiceDate>2021-02-01</InvoiceDate>
13
          <InvoiceType>Invoice</InvoiceType>
14
          <LocationCode>Main</LocationCode>
15
          <ChargeCategory>Ground Handling</ChargeCategory>
16
          <SellerOrganization>
17
           <OrganizationID>008</OrganizationID>
18
           <OrganizationDesignator>XB</OrganizationDesignator>
19
          </SellerOrganization>
20
          <BuyerOrganization>
21
           <OrganizationID>777</OrganizationID>
22
           <OrganizationDesignator>XB</OrganizationDesignator>
23
          </BuyerOrganization>
24
          <PaymentTerms>
25
           <CurrencyCode>USD</CurrencyCode>
26
           <SettlementMethod>I</SettlementMethod>
          </PaymentTerms>
```

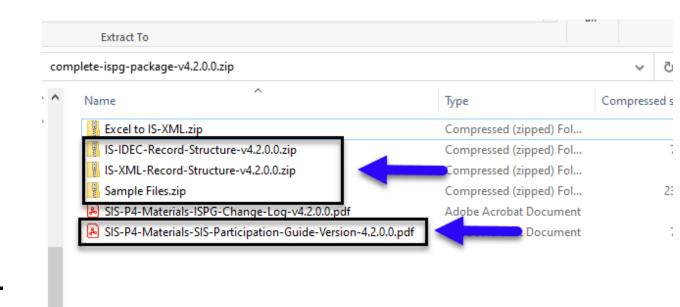
> PIDECF | CIDECF

```
CIDECF-7772021060220210616182218.DAT 🗵
  CBD000000010007770320
  CBD0000000210077700080353857
                        0000000000210600840840
   ID2106100000000000100000000000
  CBD0000000320077700080353857
                        00001000010465020452217724010000000371200000000000
   0000000000000000
  PBD0000000430077700080353857
                        999999999
                                  0000000000371200000000000000000000
  000000020000000000000000
  CBD0000000540077700080353857
                        9999999990000 00000000003712000000000000000000
                   000000000003712P
  CBD0000000642077700080353857
                        TlCharged via IATA Clearing
  CBD00000007500777999999999999999
                        000000000
                      00000007
```



Things To Remember

- SIS Members have 2 options of file formats in SIS
 - > IS-XML
 - > IS-IDEC
- ➤ Each IS-IDEC or IS-XML needs to be a compressed file and the ZIP archive should contain only one file.
- ➤ The complete ISPG package contains the IS-IDEC and IS-XML structures and sample files.
- Members should test their files in Sandbox prior to uploading to SIS Production as a best practice to avoid validation errors in SIS Production.





Poll#1

Complete the following statement:

"I understand IS-XML / IS-IDEC file formats and Record Structures..."

- A. Very well
- B. Well
- C. Fairly
- D. Not so well
- E. Not at all







- File Loading via SIS and/or iiNET
- Processing times
- Calendar Input Files vs Output Files





- > SIS Members can upload their files via SIS or iiNET
 - Via SIS the process is manual (max 50 files at a time, should not exceed 25MB in cumulative size for all files submitted for upload)
 - Via iiNET members have the option of manual upload or automated push /pull mechanism (no limit on the number or size of file).
- ➤ File naming conventions in **Chapter 12** of the <u>ISPG</u> "Record Structure and Interfacing Details".
- ➤ Each file submitted to SIS should follow the **IS-IDEC** or **IS-XML** structure and the corresponding naming convention.



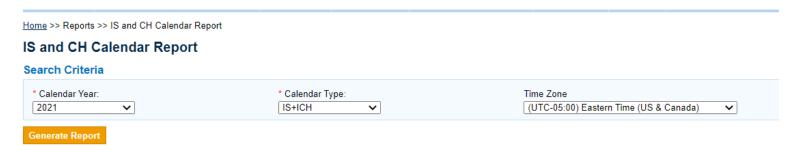
- Files are processed, on <u>average</u>, within of 1m30s of reception in SIS
- > The processing time may be impacted by the following factors:
 - > The size of the file
 - The number of transactions within the file
 - > The system load at the time of submission
 - > The file source (i.e. loading via SIS directly or via iiNET)
 - > The frequency defined when files are pushed or pulled via SFTP

The SIS Service Levels are described in the <u>Attachment E</u> of the Sample of the "**Standard Agreement for SIS Participation**".



Calendar Input Files vs. Output Files

The Calendar can be downloaded from SIS.



IS and CH Calendar Report Search Criteria: Calendar Year: 2021, Calendar Type: IS and ICH, Time Zone: (UTC-05:00) Eastern Time (US and Canada) ICH Processing Calendar IS Processing Calendar Submission Submission Submission Supporting Auto Bill Closure Day Advice Day Protest Early Call Suspension Open (Future Deadline For Deadline For Output **Documents** Invoice Deadline Day Day Day Dated ICH Invoices **ACH Invoices** Link Deadline Finalization (Associated Generation Submission) Members) 14-Jan 16:00 18-Jan 0:00 January-2021 08-Jan 0:00 25-Dec 13:00 14-Jan 17:00 14-Jan 17:00 18-Jan 23:00 18-Jan 0:00 14-Jan 17:00 21-Jan 11:00 21-Jan 17:00 25-Jan 17:00 27-Jan 17:00 28-Jan 17:00 25-Dec 13:00 25-Jan 23:00 25-Jan 0:00 21-Jan 16:00 21-Jan 17:00 25-Jan 0:00 28-Jan 11:00 28-Jan 17:00 01-Feb 17:00 04-Feb 17:00 2 15-Jan 0:00 21-Jan 17:00 21-Jan 17:00 03-Feb 17:00 3 22-Jan 0:00 25-Dec 13:00 28-Jan 17:00 28-Jan 17:00 01-Feb 23:00 01-Feb 0:00 28-Jan 16:00 28-Jan 17:00 01-Feb 0:00 04-Feb 11:00 04-Feb 17:00 08-Feb 17:00 10-Feb 17:00 11-Feb 17:00 25-Dec 13:00 10-Feb 23:00 10-Feb 0:00 08-Feb 16:00 08-Feb 17:00 22-Feb 17:00 29-Jan 0:00 08-Feb 17:00 08-Feb 17:00 10-Feb 0:00 15-Feb 11:00 16-Feb 17:00 17-Feb 17:00 19-Feb 17:00 February-2021 09-Feb 0:00 25-Jan 13:00 16-Feb 17:00 16-Feb 17:00 18-Feb 23:00 18-Feb 0:00 16-Feb 16:00 16-Feb 17:00 18-Feb 0:00 23-Feb 11:00 23-Feb 17:00 25-Feb 17:00 01-Mar 17:00 02-Mar 17:00 22-Feb 17:00 03-Mar 17:00 17-Feb 0:00 25-Jan 13:00 22-Feb 17:00 24-Feb 23:00 24-Feb 0:00 22-Feb 16:00 22-Feb 17:00 24-Feb 0:00 01-Mar 11:00 01-Mar 17:00 05-Mar 17:00 08-Mar 17:00 3 23-Feb 0:00 25-Jan 13:00 01-Mar 17:00 01-Mar 17:00 03-Mar 23:00 03-Mar 0:00 01-Mar 16:00 01-Mar 17:00 03-Mar 0:00 08-Mar 11:00 08-Mar 17:00 10-Mar 17:00 12-Mar 17:00 15-Mar 17:00



Best Practices – TAP Air Portugal



- Uses IS-XML Files on Submission
- > Automated File Submission via iiNET SFTP
- Manual File Submission via IS-WEB (Correction Files)
- ➤ Input Process Starts at 7 p.m. / Output Process Starts at 9 a.m.
- Calendar Provided by Revenue Accounting Team (1st week of Jan) and according to SIS Scheduling



Poll #2

What is the primary method used within your organization to upload SIS files?

- A. Manual upload via IS-WEB
- B. Manual upload via iiNET
- C. Automated upload via iiNET SFTP





Input File Processing and Monitoring



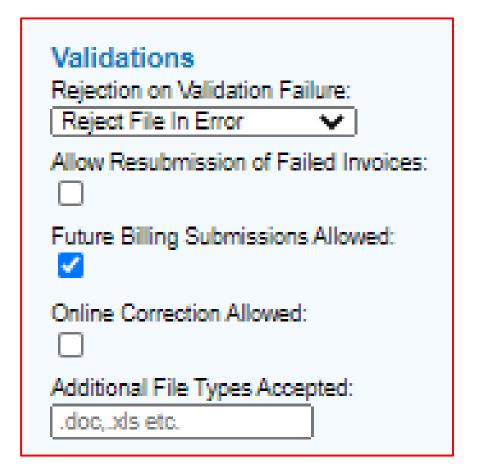
Input File Processing and Monitoring

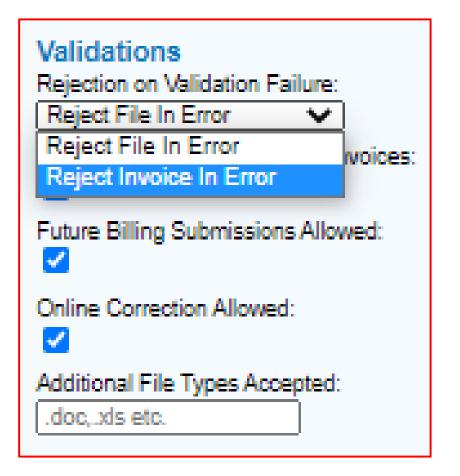
- Member Profile Validation Settings
- File Loading & Status
- Processing Dashboard
- Validation Status
- Checking Validation Reports
- Deleting Failed Files





Validation Settings

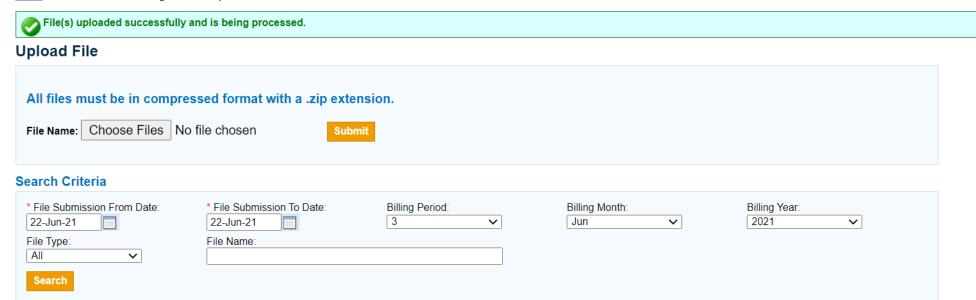






File Loading & File Status

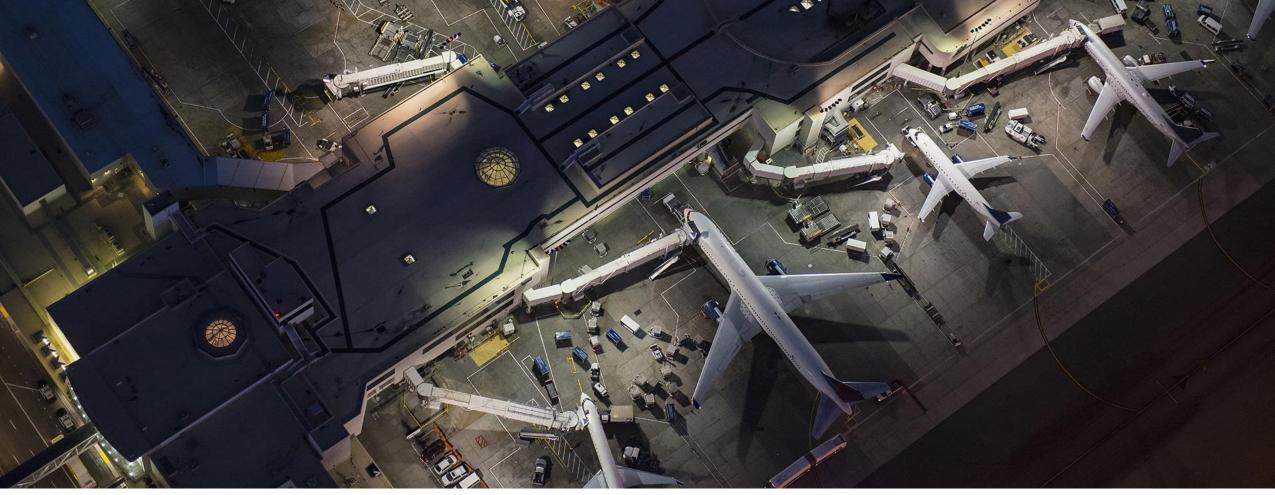
Home >> General >> File Management >> Upload File



Search Results

| our or recours | | | | | |
|-------------------------------------|-----------------|-----------------------|---------------------------|------------------------|-------------------------|
| File Name | File Type | Received Date 🥏 | Billing Period-Month-Year | Status | File Progress Status |
| PXMLF-0082021060320210526133444.xml | ISXML - Inbound | 6/22/2021 10:18:28 AM | 03-06-2021 | Error In Validation | |
| MXMLF-0082021060320210526101228.xml | ISXML - Inbound | 6/22/2021 10:16:36 AM | 03-06-2021 | Successfully Validated | |
| CXMLF-0082021060320210526112222.xml | ISXML - Inbound | 6/22/2021 10:15:08 AM | 03-06-2021 | Successfully Validated | |

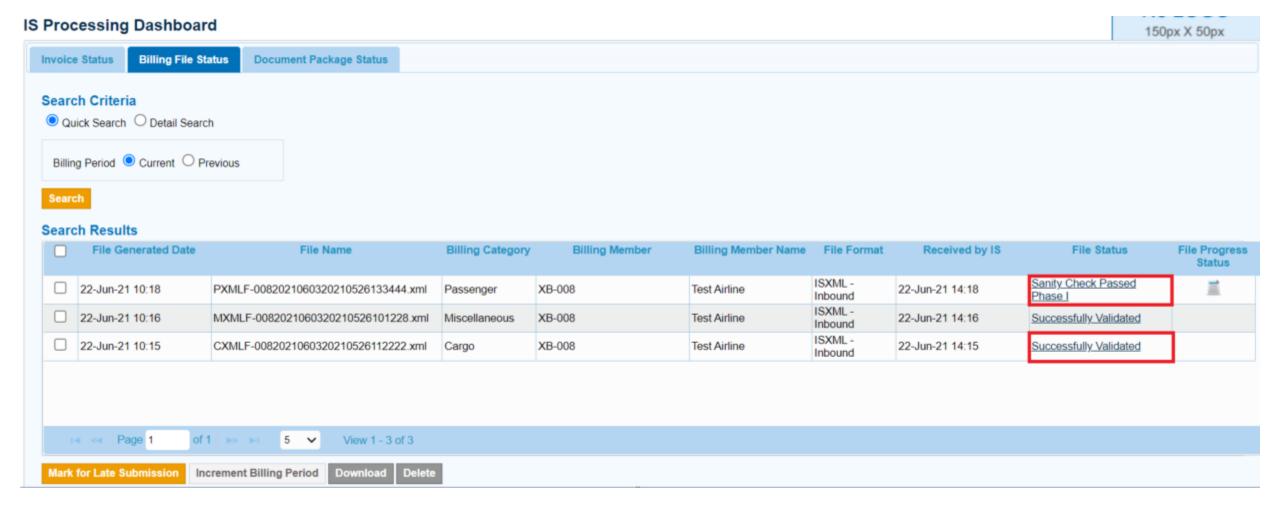




Using the Processing Dashboard

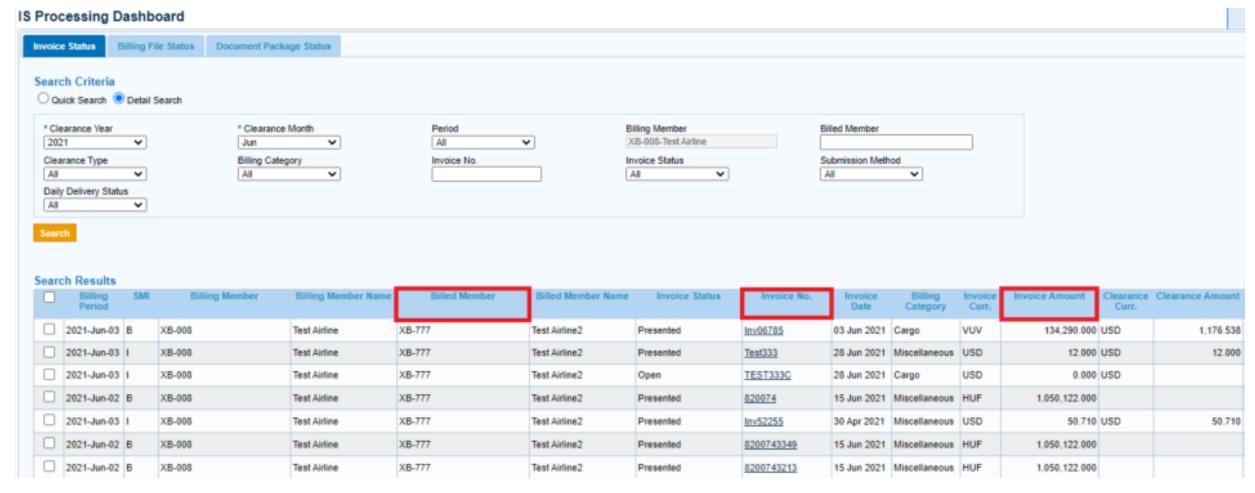


File Loading & File Status



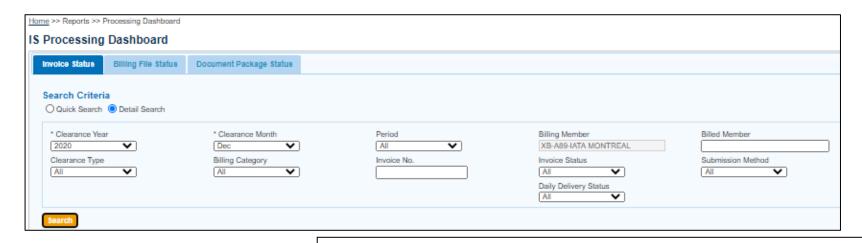


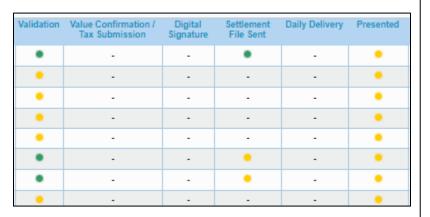
Processing Dashboard





Invoice Status





- ▶ Invoice Status → Indicates the status of the invoice
 - Open = invoice has been created but <u>not submitted</u>
 - Ready for Submission = invoice has been created and validated but <u>not submitted</u>
 - Validation Error Web Invoice = invoice manually submitted via IS WEB that failed validation
 - Error Correctable = Invoice submitted via file that failed validation for error correctable (can be corrected online)
 - Error Non Correctable = invoice submitted via file that failed validation for error non correctable (has to be deleted, corrected and resubmitted)
 - o Ready for Billing = invoice has been submitted
 - Claimed = invoice has been <u>submitted and accepted by the Clearing House</u>
 - Presented = invoice is <u>available for the billed member</u>



Validation Status

| Validation | Value Confirmation / Tax Submission | Digital Signature | Settlement File Sent | Daily Delivery | Presented |
|------------|--|----------------------|-------------------------|----------------|-----------|
| • | - | - | - | - | • |
| • | - | - | - | - | • |
| • | - | • | - | - | • |
| • | - | • | • | - | • |
| • | - | • | • | - | • |
| • | - | • | - | - | • |
| • | - | • | • | - | • |
| • | • | • | • | - | • |
| • | - | • | • | - | • |
| • | - | • | • | - | • |
| • | - | • | • | - | • |
| • | • | • | • | - | • |

> Validation → Indicates the status of the validation

o = successful o = pending o = failed

➤ Digital Signature → indicates the status of the Digital Signature process.

-- = not required = successful = pending = failed

> Daily Delivery → Indicates whether invoices are for daily delivery:

-- = not required (invoice will be delivered after period closure)

successful (invoice is available).

pending (invoice will become available within 24h).

o - • failed (invoice failed validation)

Presented -> indicates whether the invoice is available to the billed member to download

successful (invoice is available)

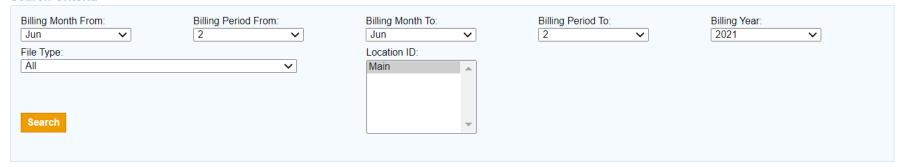
pending (invoice will be available after period closure)

failed (invoice failed validation).



Validation Reports

Search Criteria



Search Criteria for Daily MISC Bilateral Files to Billed Members/Document Package Files to Sending or Receiving Members:



Search Results

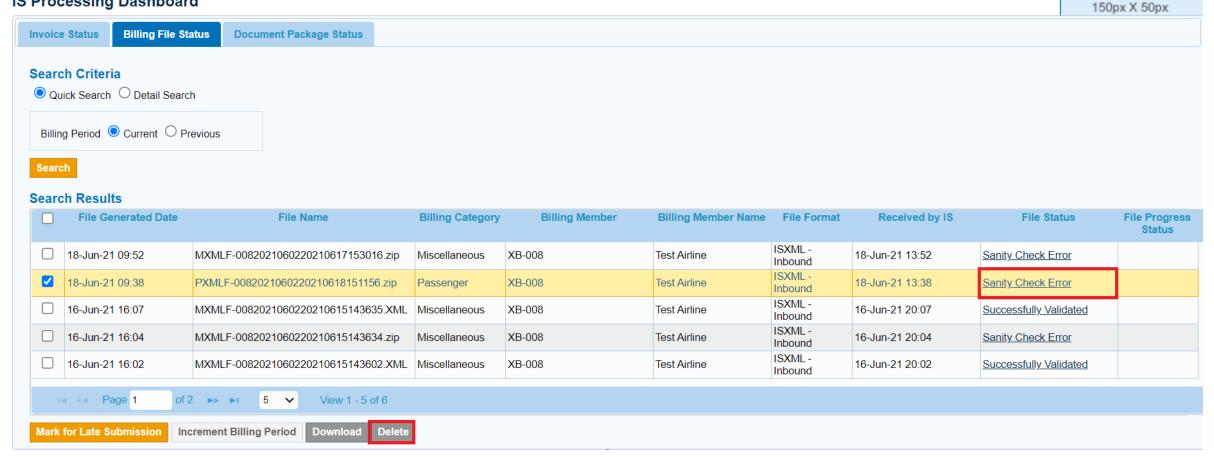
| Ocaron results | | | | | | |
|----------------------|---------------|----------------|---|--|-------------|----------|
| File Generated On 🛊 | Billing Month | Billing Period | File Name | File Type | Location ID | Action |
| 6/18/2021 9:52:44 AM | 06-2021 | 2 | MXMLF-0082021060220210617153016_VAL.ZIP | Validation/sanity check reports for IS-IDEC/IS-XML | | = |
| 6/18/2021 9:38:05 AM | 06-2021 | 2 | PXMLF-0082021060220210618151156_VAL.ZIP | Validation/sanity check reports for IS-IDEC/IS-XML | | <u> </u> |



Deleting Failed Files

No LOGO
IS Processing Dashboard

150px X 50px





Things To Remember

- Your IDEC/XML Files can be uploaded to SIS via iiNET or IS-WEB
- Whether you need to delete an invoice, or a file is dependent on the validation settings on your profile
 - Reject File in Error
 - Reject Invoice In error
- Make sure submitted file names MUST respect naming convention to be processed in SIS
- File Names must be unique...
 - Good practice is to delete failed files (dependent on validation settings) and resubmit with a new unique file name

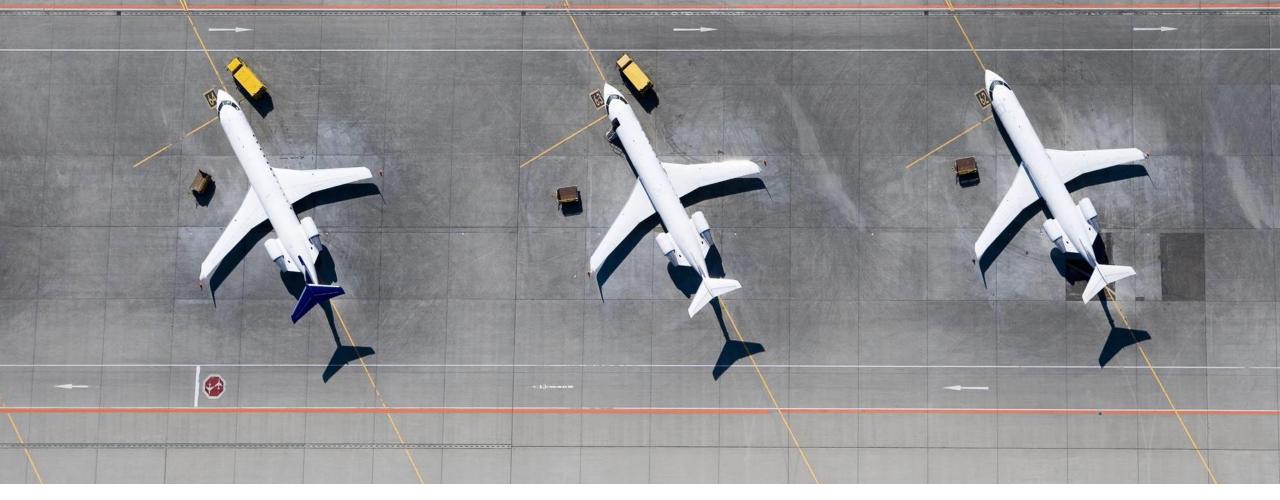


Poll#3

Q: How often do you monitor your input file submissions?

- A. Daily
- B. Weekly
- C. Before Period Closure
- D. After Period Closure
- E. After Each File Submission





File Validation Process in SIS



Validations performed by SIS

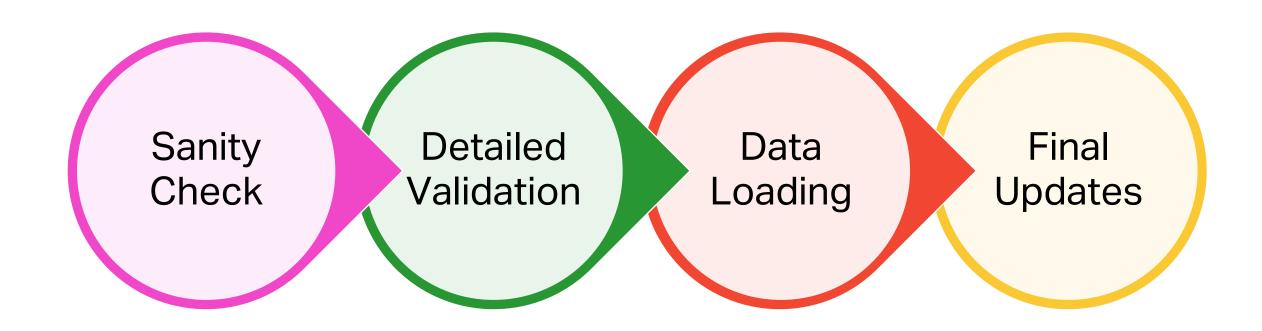
- *File Construction checks:* SIS will validate if the invoice files are created as per the defined file specifications, naming convention, duplicate files, compression logic, etc.
- *Field Format checks:* SIS will check if data values have been provided for mandatory data elements, conditionally mandatory data elements if the condition is met, etc. It will also ensure that the data is provided as per the field format (e.g. numeric, alphabetic, date, etc.) and as per the field length specifications (e.g. numeric field with a maximum of 5 digits)
- *Reference Master checks:* Invoice data fields having standard reference data values are valid (e.g. From City field if populated should have a valid IATA city/airport code, etc.)
- Interline Billing Rules checks: Some of the Interline billing rules defined in the RAM or ACH Manual of Procedure, such as possible duplicate billing check, outside time limit billings, minimum billing amount check for different type of transaction, etc.
- **Settlement Information checks:** SIS will validate the correctness of the **Settlement details provided on the invoice if it needs** to be cleared through a clearing house (e.g. Currency of Clearance information, Clearing House information, etc.).
- *Billing Audit Trail checks:* SIS will check if the various stages of billing are linked together and there are no out of turn billings (e.g. validation of 'Previous Invoice number', 'Previous Billing Month', 'Previous Rejection number', 'Rejection Stage number' in case of Rejections etc.)
- *Computation checks:* SIS will validate if billing amounts specified at various levels within the invoice add up together (e.g. the invoice total adds up to the sum of all Line Item totals, similarly Line Item total adds up to the sum of all Line Item details totals etc.). The total of the line items must not vary from the invoice value by more than a small tolerance.
- Legal Requirement checks: SIS will validate if certain legal requirements are satisfied by the Billing Entity in the invoice data (e.g. invoice Number is unique for a Billing Member within a calendar year, VAT breakdown information is provided in the case that VAT amounts are billed in the invoice, etc.)

Validations **NOT** performed by SIS

- That the Billing Entity is entitled to bill the other party
- Anything related to WHAT is billed and HOW the value is calculated
- Whether all required taxes are applied correctly
- Whether all required legal information is provided
- Correctness of Supporting Documents



Validation Process in SIS

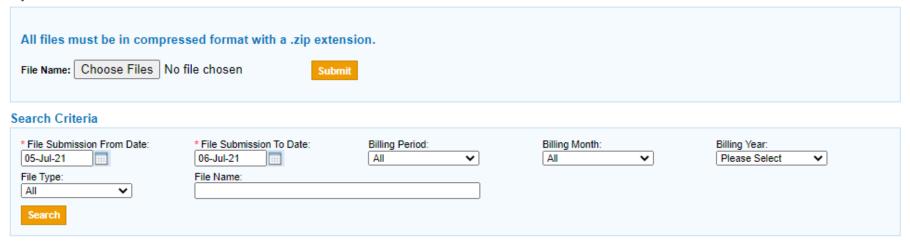




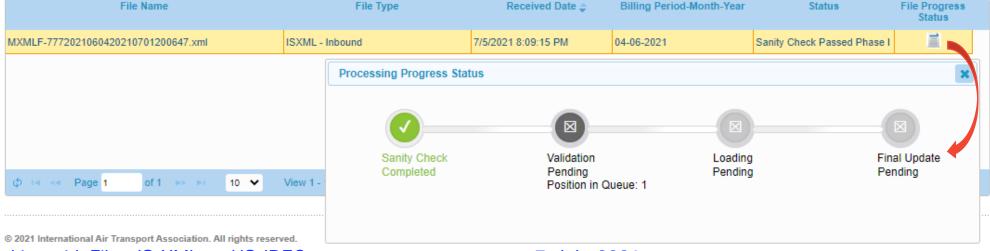
Checking the file progress status

Home >> General >> File Management >> Upload File

Upload File



Search Results





What happens during the Sanity Check?



General checks:

- File naming convention
- Duplicate files
- Successful decompression
- Acceptable characters

File specific checks:

- File structure
- Mandatory fields within records (IS-IDEC)
- Count of records/invoices within the file
- Total amounts within the file



What happens during the detailed validation?

- On successful completion of the Sanity Check process, the data within the billing file is loaded onto the Billing Record Database.
- The data is then checked for all the details and validations carried out as mentioned in the Validation rules section of the IS-IDEC Record Structure for IS-IDEC files. For IS-XML/Form C XML files, the rules detailed in the corresponding IS-XML/Form C XML excel file are applied.
- There is a summation tolerance of USD 0.50 and rounding tolerance of 0.05.



SIS Validation Report

Each file sent to SIS will generate a validation report, containing the outcome of the validation process

There are two reports generated as part of the validation process:

- SIS Validation Summary Report (R1): This report provides a summary of the validation process for a Billing file. This report is created irrespective of the Validation status. So even if all Invoices in the file are successfully validated, this report will be created.
- SIS Validation Detail Error Report (R2): This report provides the details
 of only the errors encountered during the SIS Validation Process.
 Hence if all invoices in a file are successfully validated, this report will not be created.

Outcome of the validation process

File statuses:

- 1. Successfully Validated: The validation process is controlled at the file level and no validation errors are encountered in the file
- 2. Error in Validation: the validation process is controlled at the file level and at least one error is encountered in the file
- 3. Validation Completed: The validation process is controlled at the invoice level, check the validation report for specific outcome per invoice

Invoice statuses:

- Ready for Billing/Claimed: No validation error encountered
- 2. Error Correctable: The Invoice contains errors that can be corrected online via IS-WEB.
- 3. Error Non Correctable: The Invoice contains errors and at least one of them is non correctable
- 4. On Hold: No validation error encountered in the invoice, however the Invoice is kept on hold as the validation process is controlled at the file level

Working with Files: IS-XML and IS-IDEC

7-July-2021

Validation Statuses in the Report

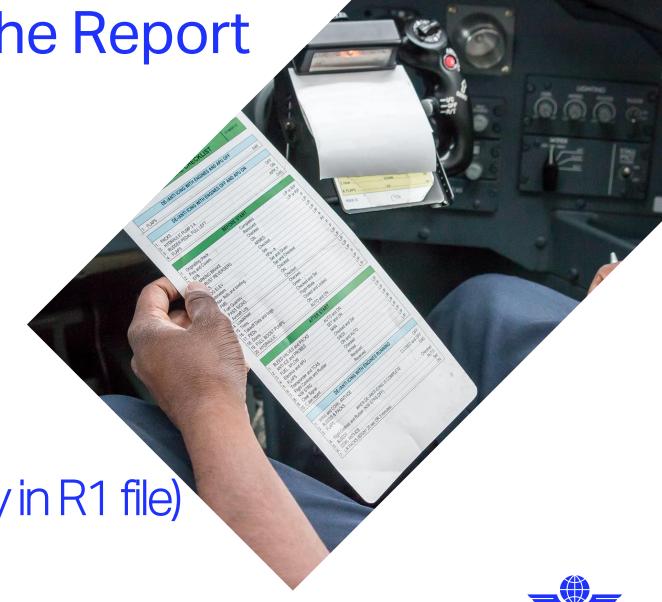
Z - Sanity Check Error

X - Error - Non Correctable

C - Error - Correctable

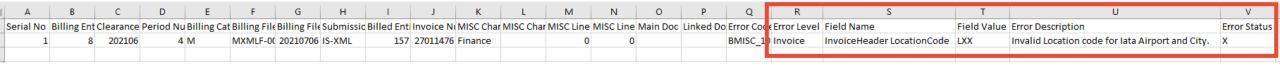
W-Warning

V-Validated Successfully (only in R1 file)



How to read the SIS validation reports

The SIS Validation Detail Error Report (R2 file) provides the details of all errors encountered during the validation process and depending on the error type will indicate the invoice number, the level at which the error was encountered, the field and the value causing the error.



Errors encountered during the sanity check process are less detailed, as these errors are at the file level, **before the system can read and upload any billing data.** Nevertheless, the error description provides an indication of the level where the problem was encountered.





How to Understand and Correct Validation Errors (Output Files)



How P manages Validation Errors

Sanity Check Errors vs Invoice Level Errors
Correction Process
Lessons Learned





Sanity Check Errors vs Invoice Level Errors



Sanity Check Errors

- Look up at Known-Errors List
- Analyze file and divide
- Correct and learn

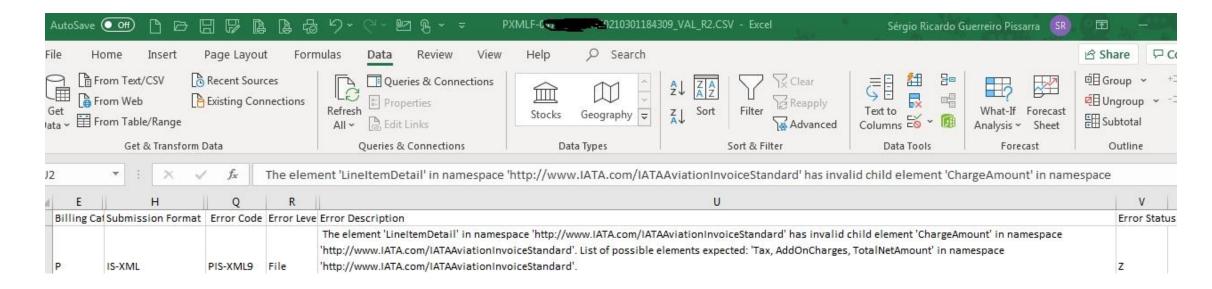
Invoice Level Errors

- Correctable
 - Send e-mail with error to TAP Revenue Accounting Team for Online correction
- Non-Correctable
 - Verify Invoice Errors
 - Validate Information in TAP Revenue Accounting System
 - Contact TAP Revenue Accounting Team (if situation requires)
 - Correct and Learn



Sanity Check - Example





Error found:

Duplicate Tag in LineItemDetail

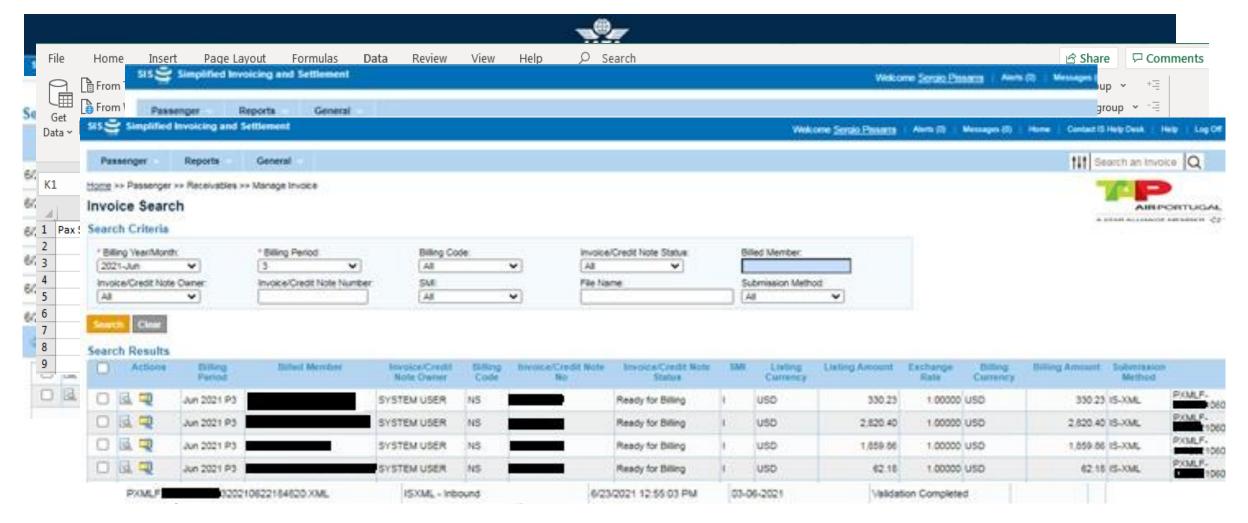
Solution:

Delete Tag < Charge Amount > "Billed" in LineItem Detail



Correction Process







Validation Errors

You can find support documentation on the SIS website.

You may refer to the 'List of Error

Codes' found in the Support Tab under

Reference Documentation to get

information regarding validation errors



Sign-up & Certification Guide

The Sign-up and Certification Guide (zip) provides details on the steps required for joining SIS. It defines various processes such as Member Profile Set-Up, Connectivity Testing, Sandbox/Certification Testing, and an overview of the IS Participation Agreement.

The Sign-Up and Certification Guide also contains the Super User form (Annex 1) and Bilateral Bank Details Form (Annex 2). As part of the requirements to join SIS, the Super User form must be completed. Bilateral Bank Details form is optional and applicable only for bilateral settlement invoices.

User Guide

The User Guide (zip) is an extensive manual to help SIS users navigate through the various screens on the SIS platform. This document describes in detail all screens and fields available on IS-Web and how to use them appropriately.

Computer-Based Training (CBT)

The Computer-Based Training (CBT) is a set of web tutorials aimed at providing users an overview of how to use the SIS platform. The tutorials present available functionalities that are accessible by an IS-Web user.

Reference Documentation

The following are various support documents related to implementing SIS.

- Introduction to SIS (pdf)
- Member Profile Template (xls)
- User Permissions Template (xls)
- Master Data Table Sources (pdf)
- List of Error Codes (xls)
- Benefits of using IS-XML with SIS (pdf)
- SIS Password Requirements (pdf)
- Location ID set up (pdf)
- India GST SIS e-Invoicing guideline (pdf)



Lessons Learned



- Build your own Errors List (Error and Solution)
- Keep Backup of Files sent and Validation Files received
- Review Programs or Processes in Submission Files creation
- Stay Up-to-date for Industry Changes



Things to Remember!

- Always check the validation outcome for your submissions! File submitted does not mean file successfully validated!
- Implement a regular monitoring and reconciliation process, to ensure errors are identified and corrected in time
- Manage your member profile to best suit your needs, by controlling the validation process at the file or at the invoice level
- Make use of the processing dashboard as your control panel for all receivables
- Check the detailed validation reports (R2) for detailed information on validation errors.

Poll#4

Q. On average, how much time do you spend to correct File Validation Errors?

- A. 5 minutes or less.
- B. Less than 1 Hour.
- C. 1 to 4 Hours.
- D. 4 hours or more.
- E. I have No Errors.



SIS ISPG available on our Website!

- 1. www.iata.org/SIS
- 2. 'SIS For Airlines' or 'SIS For Suppliers'
- 3. 'Documents' Tab

www.iata.org/cs to contact us!

Home > Services > Financial Services > Simplified Invoicing and Settlement > SIS for Airlines SIS for Airlines & SERVICES Accreditation - Travel & Intermodal Intelligence & Statistics Joining Simplified Invoicing and Settlement (SIS) instantly connects you with more than 420 airlines and intermodal Compliance Solutions entities exchanging interline billing data electronically. SIS eliminates the paper from the interline billing and settlement processes increasing efficiency and reducing costs; it enables processing automation which helps Financial Services reduce billing duplication and simplifies reconciliation JOIN SIS SUPPORT DOCUMENTS GLOSSARY FAQS WEBINARS REJECTIONS MEDIA Simplified Invoicing and Settlement Integrated Settlement Participation Guide SIS for Airlines (ISPG) SIS for Suppliers The ISPG contains all information and specification needed in order to fully implement Integrated Settlement SIS for Invoice Receivers (IS). This document is revised from time to time as needed. Supplier to Airline e-Invoicing Complete ISPG package v4.2.0.0 (zip) Complete ISPG package v4.2.0.0 (zip) with tracked changes Airports & Air Navigation IS-IDEC Record Structure IS-XML Record Structure Travel Professionals IS-XML Invoice Standard v4.2.0.0 (zip) Passenger Record Industry Partners Structure v4.2.0.0 Air Pulse Cargo Record Structure v4.2.0.0

Taxes Applied on Ancillary Sales

(gip)

