# I2A

# Iur to Air Translator
# User Manual

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# Summary


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# Introduction

The purpose of the application is to deliver medium and small travel agencies, operating mostly in Spain, an "ad interim" solution to easily translate Sabre backoffice files (IUR – Interface User Record), into the corresponding Amadeus files (AIR – Amadeus Interface Record) in order to migrate Sabre's PNR without disrupting the compatibility with their backend software based on AIR file parsing.

Being an interim solution, not all IUR file types can be converted.
To date, the tool is only able to convert: first issues, exchanges and voids (no refunds, emd, cars, hotels, etc.).

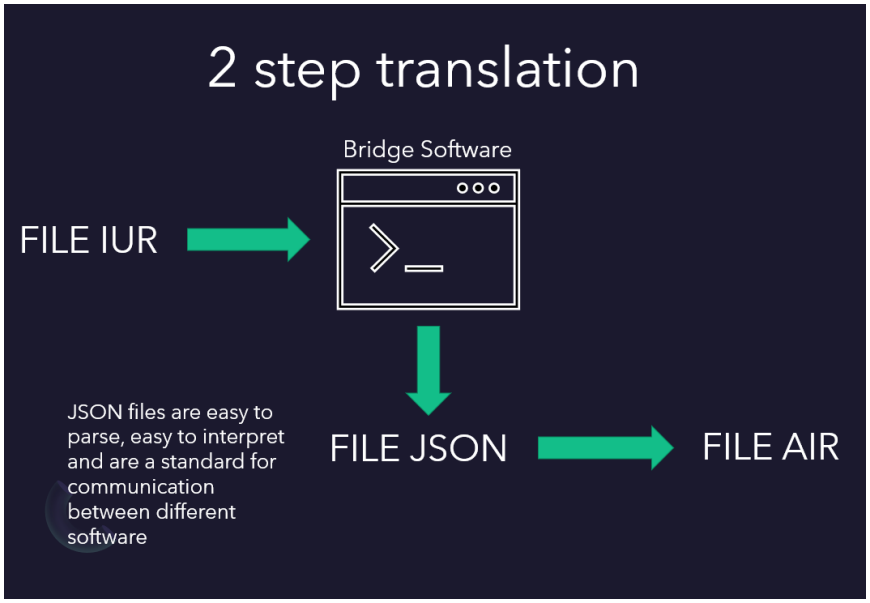
Within each Sabre IUR file, have been identified the most important and significant fields that may be of interest to the backoffice, also bearing in mind that there is not always full correspondence with the fields of Amadeus AIR files.

# Architecture

The software consists in:

1. A small client installed in the agency computer, whose task is to fetch files generated by Sabre, translate them to Air Interface Record format and send them to the agency's backoffice.
2. The tool is developed for maximum compatibility with Windows computer; wpf (.net framework.
3. The tool provide full automation (automatic file fetch, translation and copy), or could work in supervised mode (the user selects, reviews and copy the files).

Rather than converting directly from the IUR format to the AIR format, the tool creates an intermediate step that converts the data into JSON format and then convert this into an AIR file.



## Privacy and data considerations

- The tool fully operates offline, no data will leave agencies.
- Data treated are only those already treated by agencies.

## System Requirements

The application can be installed and run on a workstation (desktop PC) with the following requirements:

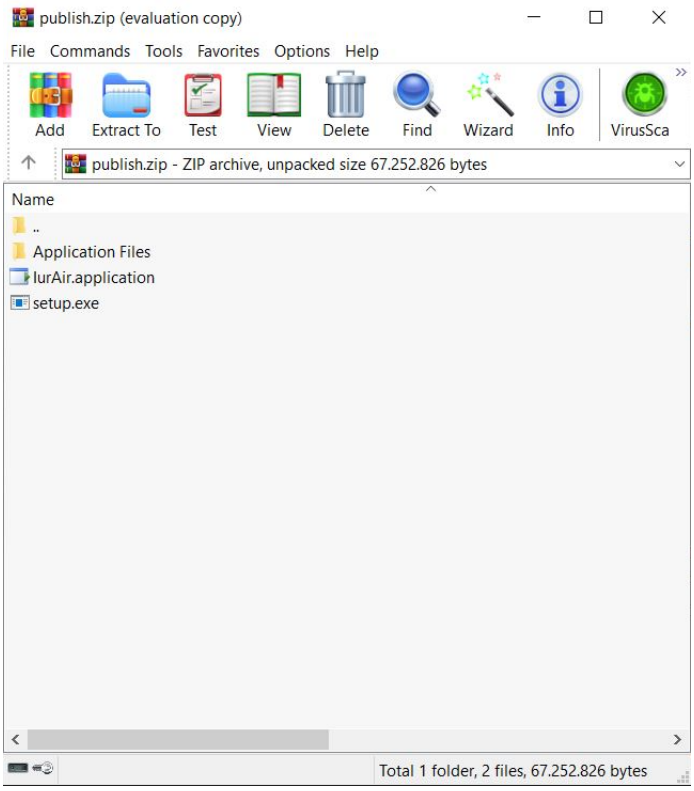
Operating System: tba
RAM: tba

**Note:** It is recommended to install the **Sabre Java Printing Module** (SJPM) software on the same machine, which downloads Sabre IUR files. In this way there will be only one point where the IUR files are converted into the AIR files.

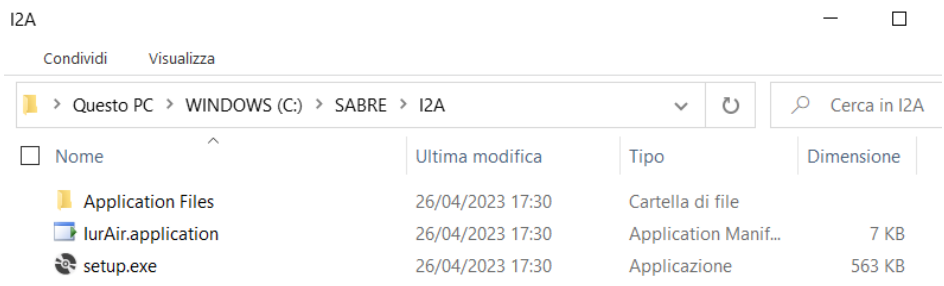
# Installation

Before installing, you need to create the directory I2A under *C:|SABRE (C:|SABRE|I2A)*

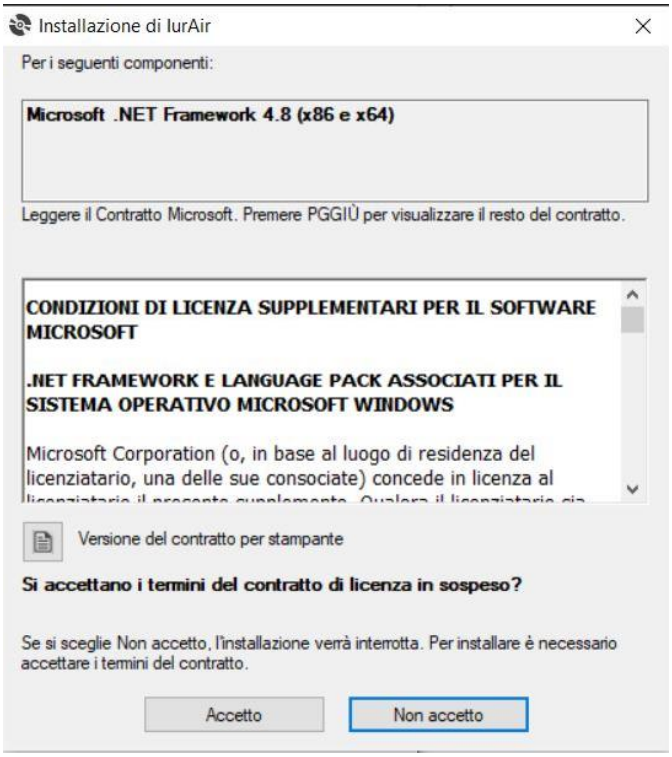
Launch the file ***publish.zip***




Extract the file ***publish.zip*** into *C:|SABRE|I2A*:



Launch ***setup.exe***



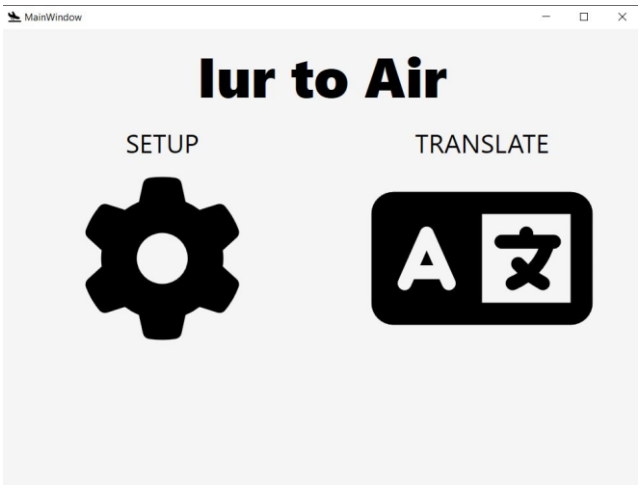

Accept Conditions

The icon ***IurAir*** will be created on your desktop:

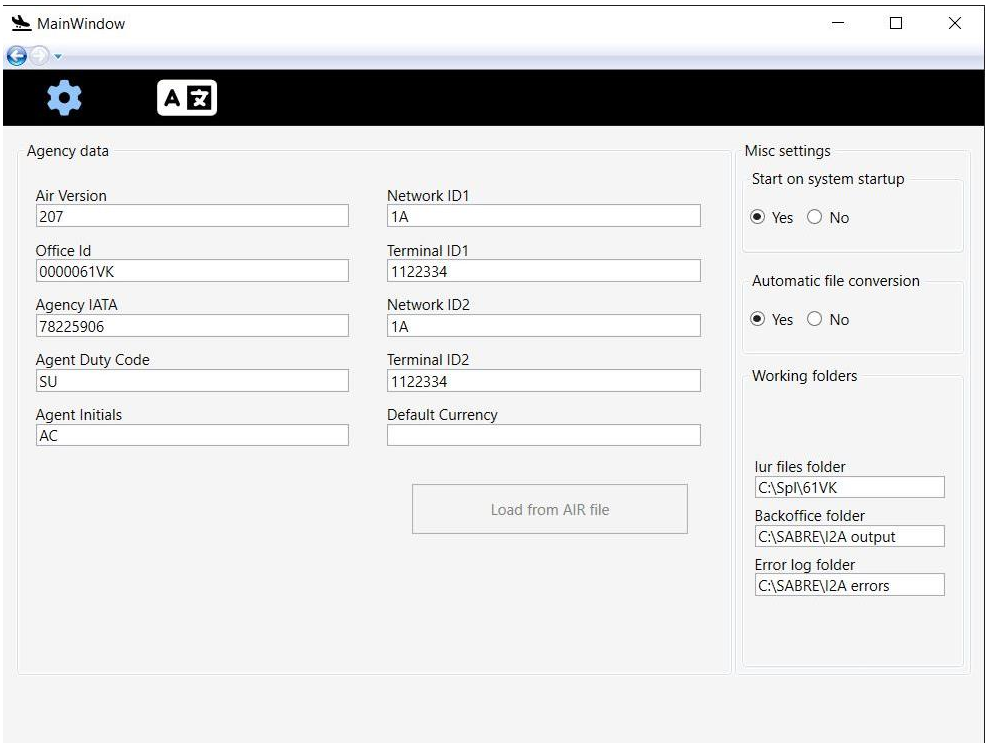
The installation is competed!

# Configuration

From the desktop launch the app IurAir

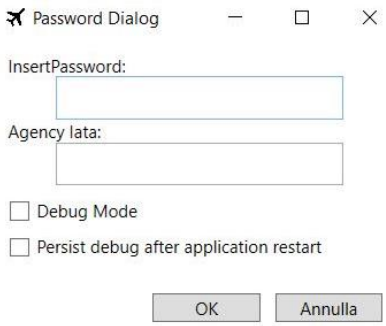



Click on SETUP

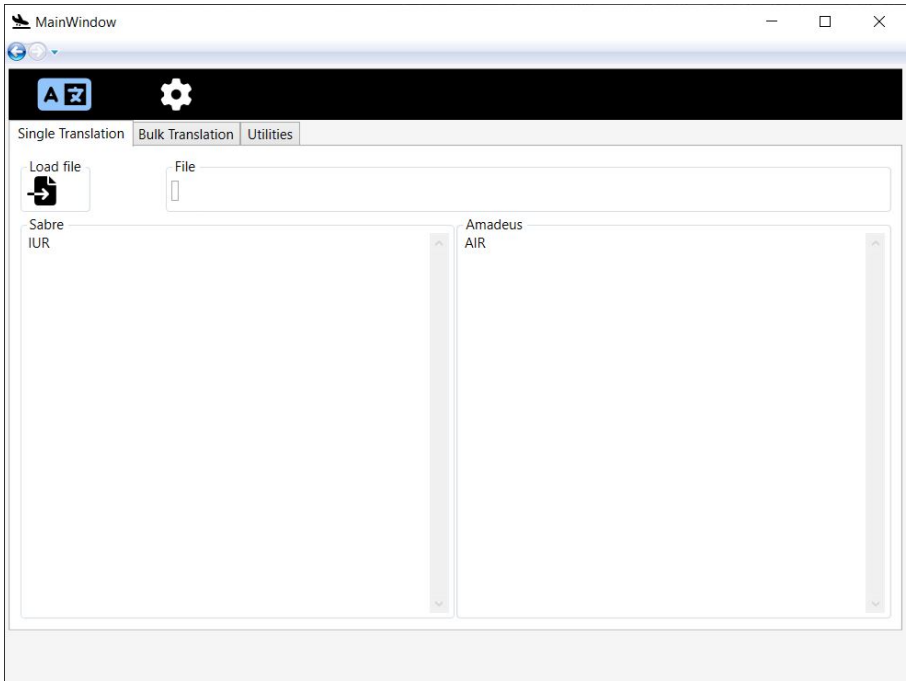



Update the fields according to customer configuration

**Note:** Agency IATA number must be the same configured in agency's TJR (this field requires password!)

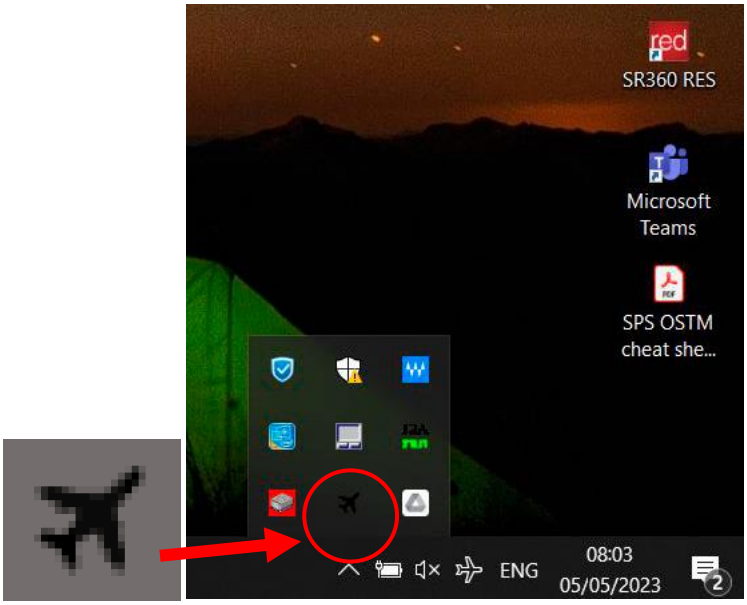



Go to TRANSLATE




Minimize the window

Now the application is active under the system tray




The app now is ready to receive files from the specified SJPM directory (Iur files folder) and convert them into the specified Backoffice folder

# Example of IUR file

```
AA24MAY1421M0B17                Y          78 22590 6  JWRYSK
611111110000001001 61VK * LP 38DAF3            24MAY 140361VK * LP
00020SEPMADMADRID           MADMADRID
00200100200200500100000000007000  01 212124MAY









00393488049941


SIMON
M101PIERA/SIMONALBERTO
02  02000003
0102
0103


010305
M102GIGLIOTTI/LORENZO
021 03000004
0102
020405


02040607
M202ADT82517446305X 2   RST       EUR 2222.00 P340.00YR PD20.20JD
PD68.33XT    NO ADC
0.00  F    0.00              MAD  N 61VK A LP 61VK A LP
0201AA11310551710
0102
01
CASH
0011131055169PMI24MAY2378225906
0011131055169/12
EUR2222.00 NONREFUNDABLE/NONREFUNDABLE/RESTRICTIONS APPLY




M3011 0HK20SEPAIRNMADMADRID           JFKNEW YORK JFK     AA   95I
1005 1220  8.15       000                    772003582
```

```
00TERMINAL 4S                    TERMINAL 8                          0
1002023JYSFAJ



M3021 0HK12OCTAIRNJFKNEW YORK JFK     MADMADRID           AA   94Y
1915 0825  7.10       110                    772003582
00TERMINAL 8                     TERMINAL 4S                         0
1002023JYSFAJ



M401ADT  20SEP20SEPOK2PCINN6C1S4       00843.951INN6C1S4
M402ADTO 12OCT12OCTOK1PCBKX0C0M4       01578.331BKX0C0M4
M50101  AA#1131055168/   0.00/ 2105.00/ 588.53/ONE/CA 1.1PIERA
SIMONALBERTO/1/F/E
M50202  AA#1131055169/   0.00/ 2105.00/ 588.53/ONE/CA 2.1GIGLIOTTI
LORENZO/1/F/E
M50301  AA#1131055170/   0.00/ 2105.00/ 588.53/ONE/CA 1.1PIERA
SIMONALBERTO/1/F/E
M50402 EAA#1131055171/   0.00/    0.00/   0.00/ONE/CA 2.1GIGLIOTTI
LORENZO/1/F/E-@0011131055169/12
M50502  AA#5005098550/   0.00/   157.00/     0.00/ONE/CA 2.1GIGLIOTTI
LORENZO/1/I/EMD
M6ADT1   MAD AA NYC843.95AA MAD1578.33NUC2422.28END ROE0.917107 PD
3.27QV0.63OG39.02US5.18AY6.03YC6.48XY3.55XA4.17XFJFK4.5
M901PT-SSR DOCS AA HK1/DB/16JAN1973/M/PIERA/SIMONALBERTO

M902PT-SSR DOCS AA HK1/DB/17MAY1985/M/GIGLIOTTI/LORENZO

M903PT-SSR TKNE AA HK1 MADJFK0095I20SEP/0011131055168C1

M904PT-SSR TKNE AA HK1 MADJFK0095I20SEP/0011131055169C1

M905PT-SSR TKNE AA HK1 MADJFK0095I20SEP/0011131055170C1

M906PT-SSR TKNE AA HK1 MADJFK0095I20SEP/0011131055171C1

M907PT-SSR TKNE AA HK1 JFKMAD0094Y12OCT/0011131055171C2

MG02ADT24MAY202321211SAA 0015005098550100011131055171l3    S
D                EUR           157.00             0.00
0                    CA
01


01            157.00                       0
24MAY202323MAY2024993REBOOKING FEE INTERNATIONAL
YY

AMERICAN AIRLINES
MAD
```

# Example of JSON file


```
{
  "Itinerary": [
    {
      "itineraryItemNumber": "01",
      "productCode": "1",
      "linkCode": "",
      "controlData": "0",
      "actionSdvSegStatCode": "HK",
      "departureDate": "20SEP",
      "secondaryProdCode": "AIR",
      "issueBoardingPass": "N",
      "departureAirport": "MAD",
      "departureCity": "MADRID",
      "arrivalAirport": "JFK",
      "arrivalCity": "NEW YORK JFK",
      "carrierCode": "AA",
      "flightNumber": "95",
      "classOfService": "I",
      "departureTime": "1005",
      "arrivalTime": "1220",
      "elapsedFlyingTime": "8.15",
      "mealServiceIndicator": "",
      "supplementalInformations": "0",
      "flightArrivalDateChangeInd": "0",
      "stops": "0",
      "stopOverCityCodes": "",
      "carrierTypeCode": "",
      "equipmentTypeCode": "772",
      "statuteMiles": "003582",
      "frequentTravelerMiles": "",
      "preReservedSeatCounter": "00",
      "departureTerminal": "TERMINAL 4S",
      "departureGate": "",
      "arrivalTerminal": "TERMINAL 8",
      "arrivalGate": "",
      "reportTime": "",
      "changeOfGaugeFunn": "0",
      "commuterCarrierName": "",
      "itineraryItemTicketingIndicator": "1",
      "specialMealReqCounter": "00",
      "departureYear": "2023",
      "airlinePnrLocator": "JYSFAJ"
    },
    {
      "itineraryItemNumber": "02",
      "productCode": "1",
```

```
    "linkCode": "",
    "controlData": "0",
    "actionSdvSegStatCode": "HK",
    "departureDate": "12OCT",
    "secondaryProdCode": "AIR",
    "issueBoardingPass": "N",
    "departureAirport": "JFK",
    "departureCity": "NEW YORK JFK",
    "arrivalAirport": "MAD",
    "arrivalCity": "MADRID",
    "carrierCode": "AA",
    "flightNumber": "94",
    "classOfService": "Y",
    "departureTime": "1915",
    "arrivalTime": "0825",
    "elapsedFlyingTime": "7.10",
    "mealServiceIndicator": "",
    "supplementalInformations": "1",
    "flightArrivalDateChangeInd": "1",
    "stops": "0",
    "stopOverCityCodes": "",
    "carrierTypeCode": "",
    "equipmentTypeCode": "772",
    "statuteMiles": "003582",
    "frequentTravelerMiles": "",
    "preReservedSeatCounter": "00",
    "departureTerminal": "TERMINAL 8",
    "departureGate": "",
    "arrivalTerminal": "TERMINAL 4S",
    "arrivalGate": "",
    "reportTime": "",
    "changeOfGaugeFunn": "0",
    "commuterCarrierName": "",
    "itineraryItemTicketingIndicator": "1",
    "specialMealReqCounter": "00",
    "departureYear": "2023",
    "airlinePnrLocator": "JYSFAJ"
  }
 ],
 "PnrFileInfo": {
  "PnrName": "JWRYSK",
  "FileNr": 0,
  "FilePath": "C:\\Spl\\61VK\\JWRYSK00.PNR"
 },
 "DocumentDate": "2023-05-24T14:21:00",
 "DocumentType": 5,
 "HeadersData": {
  "m0Data": {
```

```
"systemOriginationCode": "AA",
"transmissionDay": "24",
"transmissionMonth": "MAY",
"transmissionTime": "1421",
"recordIdentifier": "M0",
"transactionType": "B",
"interfaceVersion": "17",
"customerNumber": "",
"spareSpace": "",
"previouslyInvoicedIndicator": "Y",
"pnrRecordControlCheck": "",
"queueType": "",
"spareSpace2": "",
"invoiceNumber": "",
"agencyArcIataNr": "78 22590 6",
"pnrLocator": "JWRYSK",
"linkPnrLocator": "",
"subscriberInterfaceOptionIndicator": "6",
"phoneIndicator": "1",
"entitlements": "1",
"fareCalculations": "1",
"invoiceItineraryRemarks": "1",
"interfaceRemarks": "1",
"statuteMiles": "1",
"itineraryToPosQ": "1",
"customerProfitabilityRecord": "0",
"miscChargeOrderRecords": "0",
"prePaidTicketRecords": "0",
"tourOrderRecords": "0",
"segmentAssociatedRemarksRecords": "0",
"spareSpace3": "0",
"nameAssociatedRemarks": "1",
"amountMovedToMX": "0",
"spareSpace4": "0",
"atbIndicators": "1",
"duplicateInterfaceIndicator": "",
"pseudoCityCode": "61VK",
"bookingAgentDutyCode": "*",
"bookingAgentSine": "LP",
"lnIata": "38DAF3",
"remotePrinter": "",
"pnrCreationDate": "24MAY",
"pnrCreationTime": "1403",
"invoicingAgencyCityCode": "61VK",
"invoicingAgentDutyCode": "*",
"invoicingAgentCode": "LP",
"spare4": "",
"branchId": "000",
```

```
    "departureDate": "20SEP",
    "originCityCode": "MAD",
    "originCityName": "MADRID",
    "destinationCityCode": "MAD",
    "destinationCityName": "MADRID",
    "passengerNumber": "002",
    "ticketedPassengerNumber": "001",
    "itinerarySegmentNumber": "002",
    "entitlementNumber": "002",
    "accountingLinesNumber": "005",
    "fareCalcLinesNumber": "001",
    "itineraryRemarksNumber": "000",
    "invoiceRemarkLinesNumber": "000",
    "interfaceRemarksNumber": "007",
    "customerProfitabilityItemsNumber": "000",
    "spare5": "",
    "phoneFieldsNumber": "01",
    "iURTA": "2121",
    "recordCreationDate": "24MAY"
   },
   "m0VoidData": null,
   "IataNr": "78225906",
   "BookingAgency": "0000061VK"
  },
  "RemarkList": [],
  "Passengers": [
   {
    "Passenger": {
     "interfaceNameItemNumber": "01",
     "passengerName": "PIERA/SIMONALBERTO",
     "passengerManNumber": "",
     "advantageAirPass": "",
     "frequentTravelerNr": "",
     "frequentTravelerLevel": "",
     "itinerariesNumber": "02",
     "nameSelectedForTicketing": "",
     "spareSpace1": "",
     "acctgLines": "02",
     "itineraryRemarksNr": "00",
     "invoiceRemarksNr": "00",
     "interfaceRemarksNr": "03",
     "futureUseField": "",
     "itineraryNumbersForPassenger": [
      "01",
      "02"
     ],
     "invoiceForPassenger": [
      "01",
```

```
    "03"
   ],
   "m7ForPassenger": [],
   "m8ForPassenger": [],
   "m9ForPassenger": [
    "01",
    "03",
    "05"
   ]
  },
  "Data": {
   "PassengerTypeCode": null,
   "PassengerTicketData": null,
   "PassengerEntitlementData": null,
   "InvoicingData": [
    {
     "InvoiceType": 5,
     "InterfaceItemNumber": "01",
     "ValidatingCarrier": {
      "Name": "American Airlines",
      "Designator": "AA",
      "Code": "01"
     },
     "TicketNumber": "1131055168",
     "CommissionPercentage": "0.00",
     "BaseFare": {
      "Sign": "+",
      "Currency": "",
      "Amount": "2105.00"
     },
     "Taxes": [
      {
       "Sign": "+",
       "Currency": "",
       "Amount": "588.53"
      }
     ],
     "PriceIndication": 0,
     "FormOfPayment": "CA",
     "ConjunctionDocsNr": "1",
     "RoutingIndicator": 0,
     "ElectronicTicketIndicator": false,
     "ExchValidatingCarrier": null,
     "ExchTicket": null,
     "ExchangedCoupons": null,
     "CouponsNrIndicator": null,
     "RefundType": null,
     "FormerInvoiceNr": null,
```

```
        "AccountingNr": "01",
        "Explanation": "This line is a NormalTicket. It refers to passenger identified by ID '01'.  2105.00
It's the price of this single item tax excluded.",
        "AccountingType": 0,
        "OperationType": 0
       },
       {
        "InvoiceType": 5,
        "InterfaceItemNumber": "01",
        "ValidatingCarrier": {
         "Name": "American Airlines",
         "Designator": "AA",
         "Code": "01"
        },
        "TicketNumber": "1131055170",
        "CommissionPercentage": "0.00",
        "BaseFare": {
         "Sign": "+",
         "Currency": "",
         "Amount": "2105.00"
        },
        "Taxes": [
         {
          "Sign": "+",
          "Currency": "",
          "Amount": "588.53"
         }
        ],
        "PriceIndication": 0,
        "FormOfPayment": "CA",
        "ConjunctionDocsNr": "1",
        "RoutingIndicator": 0,
        "ElectronicTicketIndicator": false,
        "ExchValidatingCarrier": null,
        "ExchTicket": null,
        "ExchangedCoupons": null,
        "CouponsNrIndicator": null,
        "RefundType": null,
        "FormerInvoiceNr": null,
        "AccountingNr": "03",
        "Explanation": "This line is a NormalTicket. It refers to passenger identified by ID '01'.  2105.00
It's the price of this single item tax excluded.",
        "AccountingType": 0,
        "OperationType": 0
       }
      ],
      "PerTicketInvoices": {
       "1131055168": [
```

```
        {
          "InvoiceType": 5,
          "InterfaceItemNumber": "01",
          "ValidatingCarrier": {
            "Name": "American Airlines",
            "Designator": "AA",
            "Code": "01"
          },
          "TicketNumber": "1131055168",
          "CommissionPercentage": "0.00",
          "BaseFare": {
            "Sign": "+",
            "Currency": "",
            "Amount": "2105.00"
          },
          "Taxes": [
            {
              "Sign": "+",
              "Currency": "",
              "Amount": "588.53"
            }
          ],
          "PriceIndication": 0,
          "FormOfPayment": "CA",
          "ConjunctionDocsNr": "1",
          "RoutingIndicator": 0,
          "ElectronicTicketIndicator": false,
          "ExchValidatingCarrier": null,
          "ExchTicket": null,
          "ExchangedCoupons": null,
          "CouponsNrIndicator": null,
          "RefundType": null,
          "FormerInvoiceNr": null,
          "AccountingNr": "01",
          "Explanation": "This line is a NormalTicket. It refers to passenger identified by ID '01'.  2105.00
It's the price of this single item tax excluded.",
          "AccountingType": 0,
          "OperationType": 0
        }
      ],
      "1131055170": [
        {
          "InvoiceType": 5,
          "InterfaceItemNumber": "01",
          "ValidatingCarrier": {
            "Name": "American Airlines",
            "Designator": "AA",
            "Code": "01"
```

```
          },
          "TicketNumber": "1131055170",
          "CommissionPercentage": "0.00",
          "BaseFare": {
           "Sign": "+",
           "Currency": "",
           "Amount": "2105.00"
          },
          "Taxes": [
           {
            "Sign": "+",
            "Currency": "",
            "Amount": "588.53"
           }
          ],
          "PriceIndication": 0,
          "FormOfPayment": "CA",
          "ConjunctionDocsNr": "1",
          "RoutingIndicator": 0,
          "ElectronicTicketIndicator": false,
          "ExchValidatingCarrier": null,
          "ExchTicket": null,
          "ExchangedCoupons": null,
          "CouponsNrIndicator": null,
          "RefundType": null,
          "FormerInvoiceNr": null,
          "AccountingNr": "03",
          "Explanation": "This line is a NormalTicket. It refers to passenger identified by ID '01'.  2105.00
It's the price of this single item tax excluded.",
          "AccountingType": 0,
          "OperationType": 0
         }
        ]
       },
       "FareList": [
        {
         "PassengerType": "",
         "TicketNumber": "1131055168",
         "Invoices": [
          {
           "InvoiceType": 5,
           "InterfaceItemNumber": "01",
           "ValidatingCarrier": {
            "Name": "American Airlines",
            "Designator": "AA",
            "Code": "01"
           },
           "TicketNumber": "1131055168",
```

```
          "CommissionPercentage": "0.00",
          "BaseFare": {
           "Sign": "+",
           "Currency": "",
           "Amount": "2105.00"
          },
          "Taxes": [
           {
            "Sign": "+",
            "Currency": "",
            "Amount": "588.53"
           }
          ],
          "PriceIndication": 0,
          "FormOfPayment": "CA",
          "ConjunctionDocsNr": "1",
          "RoutingIndicator": 0,
          "ElectronicTicketIndicator": false,
          "ExchValidatingCarrier": null,
          "ExchTicket": null,
          "ExchangedCoupons": null,
          "CouponsNrIndicator": null,
          "RefundType": null,
          "FormerInvoiceNr": null,
          "AccountingNr": "01",
          "Explanation": "This line is a NormalTicket. It refers to passenger identified by ID '01'.
2105.00 It's the price of this single item tax excluded.",
          "AccountingType": 0,
          "OperationType": 0
         }
        ],
        "InvoiceSum": {
         "PassengerType": "",
         "BaseFare": {
          "Sign": "+",
          "Currency": "",
          "Amount": "2105.00"
         },
         "TotalFare": {
          "Sign": "+",
          "Currency": "",
          "Amount": "2693.53"
         },
         "TotalTaxes": {
          "Sign": "+",
          "Currency": "",
          "Amount": "588.53"
         },
```

```
      "TicketNr": "1131055168"
     }
    },
    {
     "PassengerType": "",
     "TicketNumber": "1131055170",
     "Invoices": [
      {
       "InvoiceType": 5,
       "InterfaceItemNumber": "01",
       "ValidatingCarrier": {
        "Name": "American Airlines",
        "Designator": "AA",
        "Code": "01"
       },
       "TicketNumber": "1131055170",
       "CommissionPercentage": "0.00",
       "BaseFare": {
        "Sign": "+",
        "Currency": "",
        "Amount": "2105.00"
       },
       "Taxes": [
        {
         "Sign": "+",
         "Currency": "",
         "Amount": "588.53"
        }
       ],
       "PriceIndication": 0,
       "FormOfPayment": "CA",
       "ConjunctionDocsNr": "1",
       "RoutingIndicator": 0,
       "ElectronicTicketIndicator": false,
       "ExchValidatingCarrier": null,
       "ExchTicket": null,
       "ExchangedCoupons": null,
       "CouponsNrIndicator": null,
       "RefundType": null,
       "FormerInvoiceNr": null,
       "AccountingNr": "03",
       "Explanation": "This line is a NormalTicket. It refers to passenger identified by ID '01'.
2105.00 It's the price of this single item tax excluded.",
       "AccountingType": 0,
       "OperationType": 0
      }
     ],
     "InvoiceSum": {
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```
        "PassengerType": "",
        "BaseFare": {
         "Sign": "+",
         "Currency": "",
         "Amount": "2105.00"
        },
        "TotalFare": {
         "Sign": "+",
         "Currency": "",
         "Amount": "2693.53"
        },
        "TotalTaxes": {
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         "Currency": "",
         "Amount": "588.53"
        },
        "TicketNr": "1131055170"
       }
      }
    ],
    "TripSegments": [],
    "PersonalRemarks": [],
    "errors": [],
    "totPax": 2,
    "totSeg": 2
   },
   "PassengerType": "Unavailable"
},
{
   "Passenger": {
    "interfaceNameItemNumber": "02",
    "passengerName": "GIGLIOTTI/LORENZO",
    "passengerManNumber": "",
    "advantageAirPass": "",
    "frequentTravelerNr": "",
    "frequentTravelerLevel": "",
    "itinerariesNumber": "02",
    "nameSelectedForTicketing": "1",
    "spareSpace1": "",
    "acctgLines": "03",
    "itineraryRemarksNr": "00",
    "invoiceRemarksNr": "00",
    "interfaceRemarksNr": "04",
    "futureUseField": "",
    "itineraryNumbersForPassenger": [
     "01",
     "02"
    ],
```

```
  "invoiceForPassenger": [
   "02",
   "04",
   "05"
  ],
  "m7ForPassenger": [],
  "m8ForPassenger": [],
  "m9ForPassenger": [
   "02",
   "04",
   "06",
   "07"
  ]
 },
 "Data": {
  "PassengerTypeCode": "ADT",
  "PassengerTicketData": {
   "interfaceNameItemNr": "02",
   "passengerType": "ADT",
   "tcnNumber": "",
   "internationalItinIndicator": "X",
   "formOfPayment": "",
   "ticketIndicator": "2",
   "combinedTicketAndBp": "",
   "ticketOnly": "",
   "bpOnly": "",
   "remotePrintAuditorCoupon": "R",
   "passengerReceiptOnly": "S",
   "remPrintAgentsCoupon": "T",
   "remPrintCreditCard": "",
   "invoiceDocument": "",
   "miniItinerary": "",
   "magneticEncoding": "",
   "usContractWholesaleBulk": "",
   "bspTicketSuppression": "",
   "fareSign": "",
   "fareCurrencyCode": "EUR",
   "fareAmount": "2222.00",
   "tax1Sign": "",
   "tax1Amount": "P340.00",
   "tax1Id": "YR",
   "tax2Sign": "",
   "tax2Amount": "PD20.20",
   "tax2Id": "JD",
   "tax3Sign": "",
   "tax3Amount": "PD68.33",
   "tax3Id": "XT",
   "totalFareSign": "",
```

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  "totalFareCurrCode": "",
  "totalFareAmount": "NO ADC",
  "cancellationPenaltyAmount": "",
  "commissionOnPenalty": "",
  "obIndicator": "",
  "spareSpace": "",
  "equivalentPaidSign": "",
  "equivalentFareCurrCode": "",
  "equivalentFare": "",
  "commissionPercentage": "",
  "commissionSign": "",
  "commissionAmt": "",
  "netAmountSign": "",
  "netAmt": "0.00",
  "canadianTickDesCode": "",
  "canadianTickTravelCode": "",
  "foreignTarifFlag": "F",
  "travelAgencyTax": "0.00",
  "inclusiveTourNr": "",
  "ticketingCity": "MAD",
  "printMiniItinerary": "",
  "creditCardInfoPrintSuppression": "N",
  "creditCardAuthSourceCode": "",
  "fareAgentPcc": "61VK",
  "fareAgentDutyCode": "A",
  "fareAgentSine": "LP",
  "printAgentPcc": "61VK",
  "printAgentDutyCode": "A",
  "printAgentSine": "LP",
  "spare2": "",
  "creditCardAuth": "",
  "newFopIndicator": "",
  "privateFareIndicator": "",
  "spare3": "",
  "ccExpDate": "",
  "ccExtPaymentMonths": "0",
  "m4RecordCount": "02",
  "m6RecordCount": "01",
  "validatingCarrierCode": "AA",
  "ticketNumber": "1131055171",
  "conjunctionTktCount": "0",
  "FormOfPayment": null
},
"PassengerEntitlementData": {
  "m3RecordItemNumber": "01",
  "passengerTypeCode": "ADT",
  "connectionIndicator": "",
  "entitlementType": "",
```

```
  "fareNotValidBeforeDate": "20SEP",
  "fareNotValidAfterDate": "20SEP",
  "m4Status": "OK",
  "baggageAllow": "2PC",
  "fareBasisCode": "INN6C1S4",
  "amtrakClassOfService": "",
  "fareByLegDollarAmt": "00843.95",
  "electronicTicketIndicator": "1",
  "fareBasisCodeExpanded": "INN6C1S4",
  "ticketDesignatorExpanded": "",
  "currencyCode": "",
  "spareSpace": ""
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 "InvoicingData": [
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   "InterfaceItemNumber": "02",
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    "Designator": "AA",
    "Code": "01"
   },
   "TicketNumber": "1131055171",
   "CommissionPercentage": "0.00",
   "BaseFare": {
    "Sign": "+",
    "Currency": "",
    "Amount": "0.00"
   },
   "Taxes": [
    {
     "Sign": "+",
     "Currency": "",
     "Amount": "0.00"
    }
   ],
   "PriceIndication": 0,
   "FormOfPayment": "CA",
   "ConjunctionDocsNr": "1",
   "RoutingIndicator": 0,
   "ElectronicTicketIndicator": false,
   "ExchValidatingCarrier": {
    "Name": "Default",
    "Designator": "Default",
    "Code": "Default"
   },
   "ExchTicket": "1131055169",
   "ExchangedCoupons": "12",
```

```
        "CouponsNrIndicator": null,
        "RefundType": null,
        "FormerInvoiceNr": null,
        "AccountingNr": "04",
        "Explanation": "This line is a EvenExchange. It refers to passenger identified by ID '02'.  0.00 It's
the price of this single item tax excluded.",
        "AccountingType": 0,
        "OperationType": 1
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      ],
      "PerTicketInvoices": {
       "1131055171": [
        {
         "InvoiceType": 5,
         "InterfaceItemNumber": "02",
         "ValidatingCarrier": {
          "Name": "American Airlines",
          "Designator": "AA",
          "Code": "01"
         },
         "TicketNumber": "1131055171",
         "CommissionPercentage": "0.00",
         "BaseFare": {
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          "Currency": "",
          "Amount": "0.00"
         },
         "Taxes": [
          {
           "Sign": "+",
           "Currency": "",
           "Amount": "0.00"
          }
         ],
         "PriceIndication": 0,
         "FormOfPayment": "CA",
         "ConjunctionDocsNr": "1",
         "RoutingIndicator": 0,
         "ElectronicTicketIndicator": false,
         "ExchValidatingCarrier": {
          "Name": "Default",
          "Designator": "Default",
          "Code": "Default"
         },
         "ExchTicket": "1131055169",
         "ExchangedCoupons": "12",
         "CouponsNrIndicator": null,
         "RefundType": null,
```

```
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          "AccountingNr": "04",
          "Explanation": "This line is a EvenExchange. It refers to passenger identified by ID '02'.  0.00
It's the price of this single item tax excluded.",
          "AccountingType": 0,
          "OperationType": 1
         }
        ]
       },
       "FareList": [
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         "PassengerType": "ADT",
         "TicketNumber": "1131055171",
         "Invoices": [
          {
           "InvoiceType": 5,
           "InterfaceItemNumber": "02",
           "ValidatingCarrier": {
            "Name": "American Airlines",
            "Designator": "AA",
            "Code": "01"
           },
           "TicketNumber": "1131055171",
           "CommissionPercentage": "0.00",
           "BaseFare": {
            "Sign": "+",
            "Currency": "",
            "Amount": "0.00"
           },
           "Taxes": [
            {
             "Sign": "+",
             "Currency": "",
             "Amount": "0.00"
            }
           ],
           "PriceIndication": 0,
           "FormOfPayment": "CA",
           "ConjunctionDocsNr": "1",
           "RoutingIndicator": 0,
           "ElectronicTicketIndicator": false,
           "ExchValidatingCarrier": {
            "Name": "Default",
            "Designator": "Default",
            "Code": "Default"
           },
           "ExchTicket": "1131055169",
           "ExchangedCoupons": "12",
```

```
            "CouponsNrIndicator": null,
            "RefundType": null,
            "FormerInvoiceNr": null,
            "AccountingNr": "04",
            "Explanation": "This line is a EvenExchange. It refers to passenger identified by ID '02'.  0.00
It's the price of this single item tax excluded.",
            "AccountingType": 0,
            "OperationType": 1
           }
          ],
          "InvoiceSum": {
           "PassengerType": "ADT",
           "BaseFare": {
            "Sign": "+",
            "Currency": "",
            "Amount": "0.00"
           },
           "TotalFare": {
            "Sign": "+",
            "Currency": "",
            "Amount": "0.00"
           },
           "TotalTaxes": {
            "Sign": "+",
            "Currency": "",
            "Amount": "0.00"
           },
           "TicketNr": "1131055171"
          }
         }
        ],
        "TripSegments": [],
        "PersonalRemarks": [],
        "errors": [],
        "totPax": 2,
        "totSeg": 2
       },
       "PassengerType": "ADT"
     }
    ],
    "HasError": false,
    "ErrorBag": []
}
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# Example of AIR file

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20SEP;OK01;HK01; ;0;772;;;1PC;;;ET;0815 ;N;3582;ES;US;
H-002;002XJFK;NEW YORK JFK ;MAD;MADRID ;AA 0094 I I 11OCT1915 0825
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K-YEUR2105.00 ;;;;;;;;;;;;EUR2693.53 ;;;
TAX-EUR500.00 YR ;EUR20.20 JD ;EUR68.33 XT ;
KFTF; EUR500.00 YR ; EUR20.20 JD ; EUR68.33 XT ;;;;;;;;;;;;;;;;;;;