

# cardXdata V1.11

## Preliminary remark

cardXdata is used to transfer registration form data to the electronic registration form from cardXperts. The data format corresponds to the definition XML interface v2.0 and thus corresponds to the "jetweb" interface.

Attention, the hotel business must be authorized to transfer the data in the card system. Otherwise the functions cannot be carried out. To do this, the interface must be activated. Please report in good time before the installation that the activation will take place.

In addition, the company needs a new registration form number range to hand over the registration forms. The company receives this number range from the respective tourist information.

## The general rule:

As soon as a registration form has been transmitted via the interface, it can no longer be changed manually via cardXissue. All changes to the data such as:

cancellation

Shortening the stay

Extension of the stay

Non-arrival of a person on a registration form Early departure of a person on a registration form Change of name / address

Etc.

The data must always be updated by retransmitting it from the hotel software.

There is no limit to the number of transfers per registration form. There is also no limit to how far in advance the data can be transferred. This means that the data can be reported weeks before the actual arrival and the hotel can send the guest cards to the guests so that the guests can use the guest card on arrival.

### Cancellation of a registration form:

A registration form is canceled by setting the departure and arrival date the same. (or: planned arrival date and planned departure date)

### No-show of a person on the registration form:

The registration form is transmitted again without this person-> see: personid

## Transmission channels:

There are currently 4 options for transmitting the data that can be used.

### Local methods

#### 1. Transmission using an XML file

The XML file that was exported from the hotel software package is stored in a defined directory. The file is then transferred to the registration form server with the transfer program. This is done manually using a module within the cardXissue program that every landlord receives.

#### 2. Integration via DLL (cardXcom.dll)

A DLL is available which transfers the xml data to the cardXissue module. The rest of the process corresponds to the procedure using a file interface.

#### 3. Communication via IP port 4000 with the cardXissue software

The XML data can be transferred directly to the cardXissue program via port 4000.

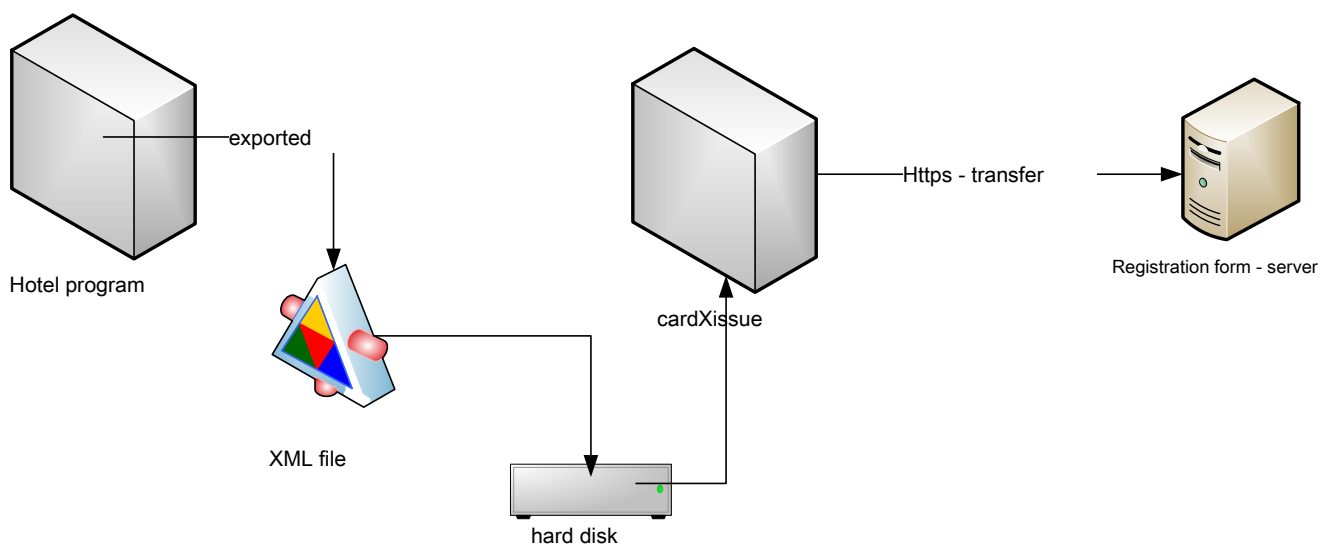
### Online handover

#### 4. Communication via SOAP web service

The xml data are sent directly to our web service

## Processing of the data locally at the hotel computer

(Methods 1-3)



## Comments on the above scheme

A hotel program stores an XML file in a directory according to the scheme described below. The cardXissue software monitors this directory. As soon as the file is "noticed", this data is processed and transmitted to the cardXperts server. The data is transmitted to

the server <https://www.cardXperts.net> (Port 443). Several web services are offered on the cardXperts server that process the registration form data.

## Install the cardXissue software

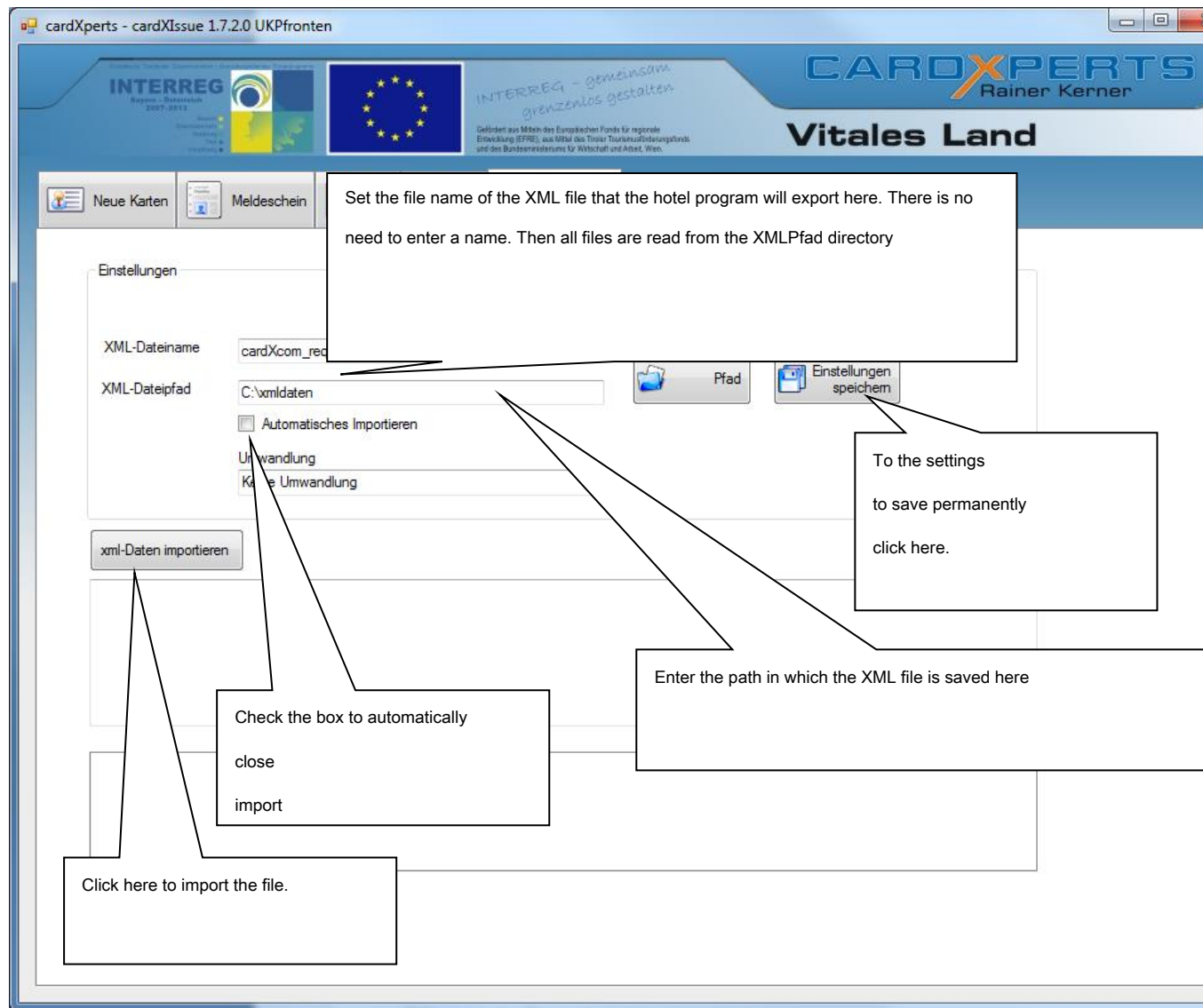
This software serves as the actual transmission component of the data. Go to the page:

<http://www.cardxperts.net/cardxcontrol/cardxissueapp/programm.htm>

There is a separate document for the installation.

### 1. Module reporting data import in cardXissue

The hotel import module is a module in the cardXissue program package. This program is available to the landlord free of charge. The authorization to select the module must be set by the administrator for the rental company.



The workflow looks like this:

- Acquisition of the data in the hotel program
- Export of the guest sheets to an XML file that corresponds to the above standard. Local writing of the file to the hard
- disk
- Start the cardXissue program in the hotel import module
- 
- Possible setting of the file name + import path XML data.
- 

The result of the operation appears after the import.

The following settings apply to the import:

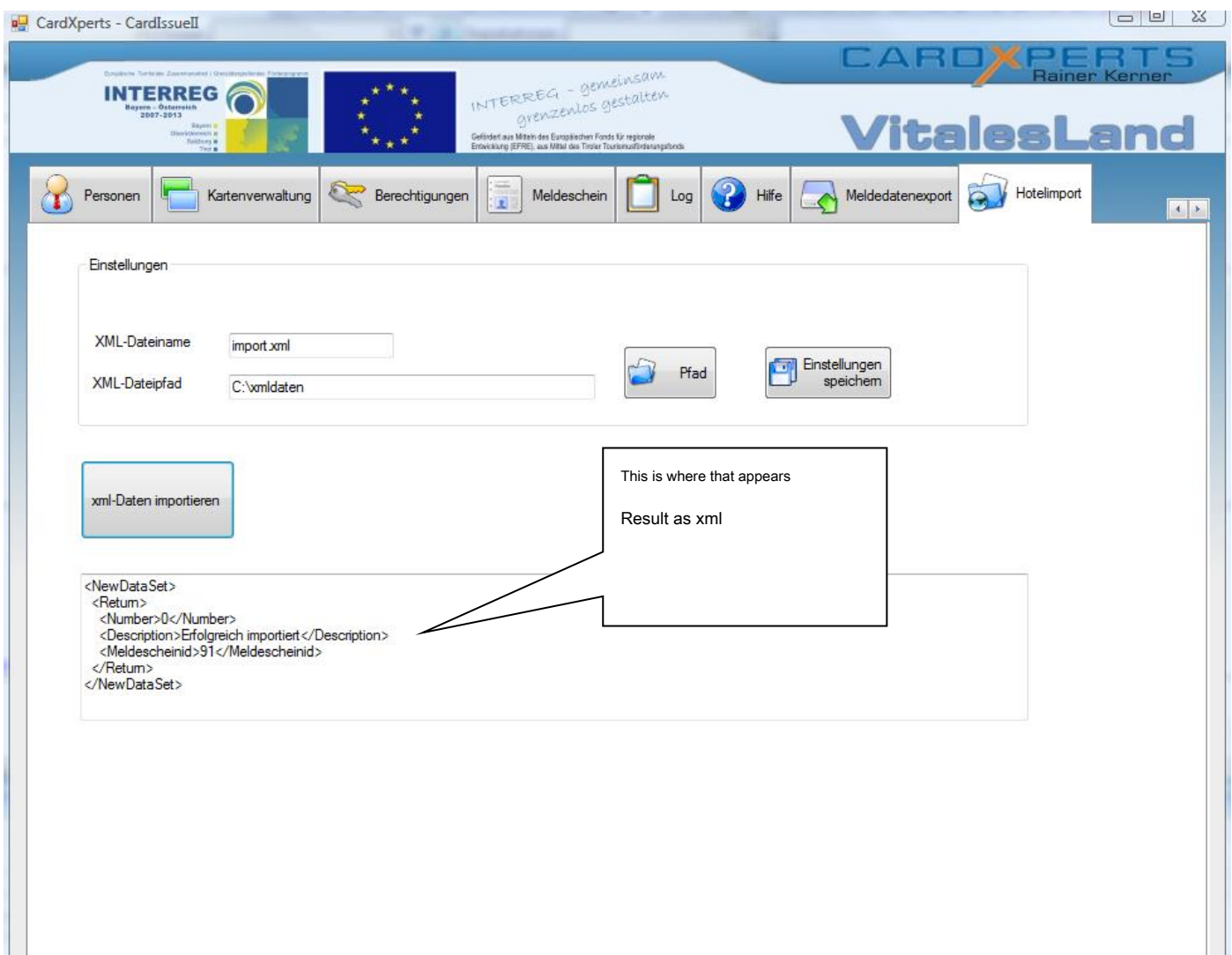
1. File name: if no file name is given, the program takes the file that it finds in the set directory.

## 2. Automatic import

If this is checked, the program monitors the set directory for the set file name or for any files in this directory. (See Point 1). As soon as the field is checked, the button "Monitor directory" appears. Monitoring is started by clicking on this button. As soon as files are found there, they are automatically imported. To stop monitoring, click the "Stop monitoring" button. Monitoring must be reactivated each time the program is started.

## 3. conversion

There are special conversion solutions here. Make sure that "No Conversion" is selected here. Unless the company requires exactly such a special conversion.



Elements in the XML - Result: Number:

contains the error number.

0 = successful

Description:

contains the error description

Registration ID:

ID of the registration form to print it. If there is an error, the field is empty.

## 2. Transfer via DLL

In addition, the process can be automated with the DLL cardXcom.dll. For this purpose, the DLL can be addressed by the respective hotel program. The DLL can be downloaded from the following address.

<http://www.cardxperts.net/cardxcontrol/cardxissueapp/cardxcom.zip>

All files must be in one directory.

Important the DLL requires the installation of the cardXissue program on the computer.

The program must be set up and all necessary settings must be made. The cardXissue program takes over the authentication etc. against the registration form server. The DLL communicates via port 4000 on the localhost with the cardXissue program, which does the actual communication and printing.

(If necessary, adjust the firewall settings so that the cardXissue program can communicate on port 4000) If the cardXissue program is not started, it will be started accordingly. This means that the first call can take longer.

The cardXissue program is not closed after completion.

The DLL currently contains the following methods:

```
Public function sendxml ( ByVal xml As string , ByVal user As string , ByVal password As string ) As string
```

D. he function expects the complete XML content as a string. Likewise the user and the password.

This data corresponds to the login data communicated to the hotel. If successful, an XML fragment is returned as a string.

Example of the result:

```
<Return>                <Number> 0 </Number>                <Description> Imported successfully </Description>  
<Meldescheinid> 92 </Meldescheinid> </Return>
```

Designations apply as described above.

```
Public function GuestSheetPrint ( ByVal meldeblattid As string , ByVal user As string ,  
ByVal password As string )
```

The function expects a registration sheet ID (registration sheet ID in the result above)

Likewise the user and the password.

The printout will start.

To do this, in the cardXIssue program under Registration Form -> Settings ->

Printer must be set to a standard printer.

Notes on the DLL

The DLL is a DLL created with DotNet.

The DLL must be registered on the target system. Since this is a DotNet DLL,

the DLL can be registered with the RegAsm.exe tool.

C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\regasm cardxcom.dll The COM-DLL is then available for integration.

Example of the use of the classes: Dim myObject As

cardxcom.cardxcom Set myObject = New cardxcom.cardxcom

Dim answer As String

answer = myObject.sendxml (XML, "Username", "Password")

### 3. Communication via port 4000

The cardXissue program must be installed for this. It monitors port 4000 via which the data can be transferred directly (without having to go through the DLL).

To do this, an identifier is first sent to the port. An OK comes back. Then the XML data is sent.

Here is an example snippet for sending the registration form:

```
Public function sendxml ( ByVal xml As string , ByVal user As string , ByVal password As
String ) As string
```

```
    Dim sendxml As string = xml.Replace (vbCrLf, "" )
```

```
    Dim answer As string = ""
```

```
    If IsAppRunning ( "cardxissuell" , False ) = False Then
```

```
        Process.Start ( " http://www.cardxperts.net/cardxcontrol/cardxissueapp/cardxis
suell.application? User = " & user & "& Password =" & password)
```

```
        (Start the application if it is not running)
```

```
        Thread.CurrentThread.Sleep (5000) (wait)
```

```
    End If
```

```
    init ()
```

```
    client_send ( "onl|" & loginname) First send onl and something behind it
```

```
    If client_recieve () = "OK" Then (You get an ok)
```

```
client_send ( "Report |" & sendxml) (You send "Melde | <xml... ./>)
```

```
answer = client_recieve ()
```

```
End If
```

```
Client.Close ()
```

```
return answer
```

```
End function
```

Analogous to the report sheet printing

```
client_send ( "Guest sheet printing |" & meldeblattid)
```

Transfer of the guest card number by means of a chip tablet (only with RFID guest cards):

We have now implemented a functionality that supports it here: There is now a new "GetKarte" function on port 4000.

```
client_send ( " GetKarte | 0 ")
```

When you call this up, a card must be placed on the chip card reader within 30 seconds. If the card is recognized, the card number is returned to you in clear text. You can then transfer this number to the appropriate place in the xml file.

## 4. Handover via web service

The XML format essentially corresponds to what has already been described. The transmission takes place via https.

Complemental description: The company's access data must be sent in the XML. To do this, please send an element of login data elements: client, password, user.

E.G:

```
<Logindata><user>Testuser</user><mandant>VitaLesLand</mandant> <passwort> YourPassword </ password> </Logindata>
```

The target address of the web service is:

<https://www.cardxperts.net/cardxcontrol/system/hotelxml.asmx>

Services that are offered:

### 1. Registration data:

The complete data is to be transferred as a string in XML format



## 2. Reporting data with conversion:

The complete data is to be transferred as a string in XML format.

The conversion must also be specified. Only permitted for agreed conversions. If you cannot generate the required XML format, cardXperts can possibly program a conversion that can use your data.

## 3. list country codes

Parameter: client

This gives you the country code list used for the client.

## 4. Listgastarten

Parameters: municipality, client

Lists the guest types stored for the municipality number.

Submit reporting data:

You send the data to the web service. It may be necessary to encapsulate the xml in a CData. (See at the end of the document.

Result:

Number: Number of the error code

Registration form ID: List of imported registration form IDs (these are required for printing.)

Registration number: List of registration numbers that were used. This list has the same order as the ID list.

Example below: Registration form ID 5902828 was imported with registration form number: 2189.

```
<NewDataSet>
<Return>
  <Number> 0 </Number>
  <Description> Successfully imported duration: 125228,3163 ms </Description> <Meldescheinid> 5902828,5902829
  </Meldescheinid>
  <Registration form number> 2189,2190 </Registration form number>
</Return>
</NewDataSet>
```

If not successful:

```
<error Fehlerertext = "Description of the error." xmlns = "" />
```

Example:

```
<error Fehlerertext = "The element 'G_C9' has an invalid subordinate element 'C119'. The list of possible elements was expected: 'C9'." xmlns = "" />
```

### Feratel data format:

Note: If you have the feratel PMS3 interface, you can send the data in Feratel format to the web service using the Meldedaten\_mit\_Umwandlung method. As an argument for the conversions, enter "feratelpms3".

The necessary access data is determined based on the combination of the community number and the company number.

The CompanyCode is not used and can be anything.

**Print out the registration forms upon handover via web service**

Registration forms are either printed using the cardXissue / cardXissueWeb program or a print link.

The print link looks like this:

<https://www.cardxperts.net/cardxissueweb/system/login.aspx?mandant=VitaesLand&User=USER&Password=PASSWORD & meldescheinidliste = list of IDS>

client: client

USER: The same USER that was transferred to the web service. PASSWORD: The user's password

List: The list of IDs of the registration forms from the result: The IDs of the registration forms are separated by "|" or ";".

Example:

<https://www.cardxperts.net/cardxissueweb/system/login.aspx?mandant=VitaesLand&User=UKPfro nten & Password = dhznndzz & meldescheinidliste = 5784182 | 5784183 | 5784183>

## Mandatory expansions of the jetweb interface version 2.0

One <gast> element must be specified for each guest. Group reports are not possible, as a guest card must also be assignable to each guest in a group.

The default date of birth in the system is 1.1.1900 and should be used if no real date of birth is known.

There are structural problems in the XML interface that make it necessary to expand the interface:

Since the interface is used in connection with a guest card project, it is necessary to precisely identify the individual guests.

- " **personid** " = (In the <guest> account)

The field is alphanumeric with a length of 50 characters.

You can also provide a number that identifies the guest on the registration form.

If something is transferred in this field and the registration form is not handed over for the first time, a check is made to see whether there is already a person on this registration form who was transferred with this number. If so, this person's master data will be updated. If not, a new person is created. (if the combination of surname, first name and date of birth has changed). What exactly they transmit here is irrelevant to us. It just has to be unique on this registration form.

- " **guest type** " = With this attribute within the guest node, the guest type can be transferred at guest level, so that the assignment is clear. The assignments on the community side correspond exactly to the assignments in the hotel business. The long text that is also used in electronic reporting is used as the value.

If the attribute is not used, the import program tries to assign it to the appropriate guest type based on the date of birth. This is not a problem with

unique guest types. For example: disabled person

An adult can only be assigned to this guest type by chance. In terms of billing, there is no disadvantage for the company if the attribute is not used. Please inquire about the types of guests for the respective location from us or from the responsible tourist information office.

## Transmission without reporting sheet number:

If you do not transmit a registration sheet number, our system automatically assigns a registration sheet number. For this purpose, add the attribute "resid" to the element <Meldeblatt>. This may be max. 50 characters long. We use this element to establish the assignment to the process in the event of a repeated transfer.

E.g:

```
<meldeblatt mblattnr = "" resid = "676087" worker = "" arrival = "2019-06-16" canceled = "2019-06-17" departure = "2019-06-17" travel group = "0">
```

## Optional extensions of the interface version 2.0

There are structural problems in the XML interface, so there are optional extensions to the interface:

- "departurePers" = With this attribute from guest level, a different departure of a person can be specified. This prevents the current registration form from having to be closed and a new one generated with the remaining persons in the event of separate departure of persons on a registration form.

**Attention:** The Abreisepers feature may only be used if the registration system of the place where the hotel is connected supports this function.

Otherwise, the registration form must be closed and a new registration form with the remaining people must be sent.

- "Planned" = The planned arrival can be transmitted with this attribute at the reporting sheet level.
- "Planned" = The planned departure can be transmitted with this attribute at the reporting sheet level.

The actual arrival / departure dates can then be transmitted in further transmissions (with the same registration number / reservation ID)

Example:

```
<meldeblatt mblattnr = "1465" editor = "008" remark = "WinhotelIMX V16.3"
stays = "0" payment method = "" arrival = "2018-11-27" planned = "2018-11-27"
canceled = "2018-11-29" travel group = "0" undef1 = "" undef2 = "" undef3 .....
```

- **Registration number:** A handover can also take place without a registration number.

In this case the interface generates a valid one for this operation

Registration number automatically.

### Note guest card:

- A guest card number can also be provided. For this, reference is made to the jetweb definition. (XML interface v2.0 (standard))

An attribute "gastkarter" must be sent in the guest node.

guest card no.	string	00030	Guest card number	Number of Guest card / EAN Card / Chip-C.	Optional
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## Example of a transfer file (method 1-3):

<xml>

<municipality oestat = "1" version = "2.0">

<company company number = "815" and much more number = "0">

<meldeblatt mblattnr = "4005" worker = "municipality" stays = "0" arrival = "2009-12-19" departure = "2009-12-21" planned = "2009-12-22" travel

group = "0">

<landschl lschnr = "1" anmpers = "1" />

<gastart gastart = "f" anzpers = "1" />

<gast gastlfdnr = "1" personid = "32326-1" gasttyp = "HG" salutation = "Mr." first name = "Rainer" name = "Kerner" strasse = "Filzmoos 235" nation = "A" zip code =

"5532" place = "Filzmoos" gender = "1" state = "D" country of origin = "1" occupation = "-----" email = "" date of birth = "1968-04-14" guest type = "f"

personid = "23433e3" gastkarter = "00023422221" />

</meldeblatt>

</operation>

</gemeinde>

</xml>

## Example of a transfer file to the web service (method 4)

<? xml version = "1.0" encoding = "UTF-8"?>

<municipality oestat = "09777159" version = "2.0">

<Logindata> <user> 7787 @ Test </user><mandant>VitalisLand</mandant> <passwort> xhszhts </ pass word> </Logindata>

<operation company number = "99999" uvmnr = ""> <meldeblatt undef3 = "" undef2 = "" undef1 = "" travel group = "0" planned = "2018-11-29" planned = "2018-11-27" arrival = "2018-11-27" type of payment = "" stays = "0" remark = "WinhotelMX V16.3" clerk = "008" mblattnr = "1465"> <landschlanzpERS = "4" IschlNr = "D" /> <gastart anzpers = "2" gastart = "E" /> <gastart anzpers = "2" gastart = "K" /> <gast hobby = "" motiv = "" additional text = "" phone = "" email = "" berufssparte = "" beruf = "" staatsang = "D" travel document = "" gender = "" date of birth = "1981-06-15" ortzusatz = "" ort = "Musterstadt" zip code = "77777" nation = "D" pobox = "" strasse2 = "" strasse = "Musterstrasse 3" name = "Mustermann" first name = "Frank" title = "" salutation = "Herr" gastkartenr = "11007738" gasttyp = "HG" gaestart = "E" "personid = "65501-1" gastlfdnr = "1" /> <gast hobby = "" motiv = "" additional text = "" phone = "" email = "" berufssparte = "" beruf = "" staatsang = "D" travel document = "" gender = "0" date of birth = "1982-07-05" place addition = "" place = "model town" zip code = "77777" nation = "D" pobox = "" strasse = "Musterstrasse2" name = "Mustermann" first name = "Erika" title = "" salutation = "woman" gastkartenr = "11007737" gasttyp = "MP" guest type = "E" personid = "65501-2" gastlfdnr = "2" /> <gast hobby = "" motive = "" additional text = "" telephone = "" email = "" berufssparte = "" beruf = "" staatsang = "D" travel document = "" gender = "0" date of birth = "2012-10-24" place additional = "" ort = "Musterstadt" zip code = "77777" nation = "D" pobox = "" strasse2 = "" strasse = "Musterstrasse 3" name = "Mustermann" first name = "Emma" title = "" salutation = "" gastkarter = "11007677" "guest type = "KI" "guest type = "K" "personid = "65501-3" gastlfdnr = "3" /> <gast hobby = "" motiv = "" additional text = "" phone = "" email = "" occupation = "" occupation = "" state = "D" travel document = "" gender = "0" gebdate = "2018-0202" "ortzusatz = " "ort = "Musterstadt" "zip code = "77777" "nation = "D" "pobox = " "strasse2 = " "

street = "Musterstrasse 3" name = "Mustermann" first name = "Leonie" title = "" salutation = "" guest card number = "11007676"

guest type = "KI" guest type = "K" personid = "65501-4" gastlfdnr = "4" /> </meldeblatt>

</operation>

</gemeinde>

## Example with encapsulation of the XML file (method 4):

```
<soap: Envelope xmlns: soap = "http://www.w3.org/2003/05/soap-envelope"
xmlns: car = "http://www.cardxperts.net" >

  <soap: Header />

  <soap: Body>

    <car: registration data>

      <! - Optional: ->

      <car: report data string> <![CDATA [<? xml version = "1.0" encoding = "utf-8"?> <municipality oestat = "99999"
version = "5">
<Login data>
<user> Zimmer_gerasdorf </user>
<mandant> enjoyment card </mandant>
<password> xxxxxxxxxx </password>
</Logindata>
<company company number = "1501">
<meldeblatt mblattnr = "11001" arrival = "2019-10-08" departure = "" clerk = "cardxperts" remark = "" stays = "3" planned = "2019-10-11" travel group = "0">

<landschl lschnr = "14" anmpers = "1" />
<gastart gastart = "P" anzpers = "1" />
<gast gastfdnr = "1" gasttyp = "HG" salutation = "Fr." first name = "Marie" name = "Antoinette" street = "test street" street2 = "" pobox = "" nation = "F" zip code
= "1234" place = "Paris" place addition = "" born date = "1900-01-01" gender = "2" travel document = "staatsang =" A "country of origin =" 14 "profession ="
"professional branch =" "email =" "phone =" "additional text =" "guest type =" P "/>

</meldeblatt>
</operation>
</gemeinde>
]]> </ car: message data string>

    </ car: registration data>

  </ soap: Body>

</ soap: Envelope>
```

## Changes:

Version 1.2 Addition to automatic importing Version 1.3 Adding personid / GetKarte

Version 1.4 Adding departurePers

Version 1.5 Supplementary content only. Version 1.6 Supplemented

by WEB interface

Version 1.7 Addition to the possibility of receiving data in feratel PMS3 format. Version 1.8 Corrections

Version 1.9 Supplement to print link for printing out registration forms

Version 1.10 Addition of list of guest types and return of registration numbers. Version 1.11 Addition of information on cancellation /  
changed data