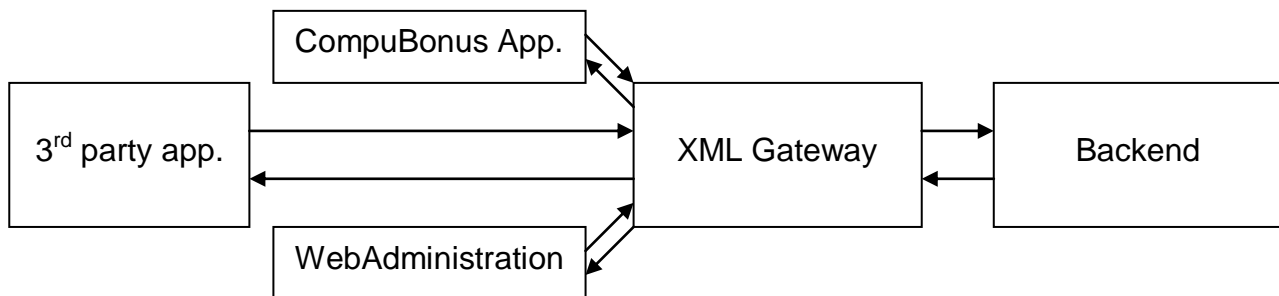




Introduction

CompuBonus is a card loyalty system, featuring an XML gateway for interaction with 3rd party systems. This document will describe the syntax and use of the XML gateway and is intended for developers wishing to interact with CompuBonus in one way or the other.



Gateway Description

Interaction with CompuBonus relies on communication through the XML gateway. The gateway works like a normal webservice, accepting input via the querystring and returning ordinary XML output, which can be parsed easily by third party applications, systems and websites.

The XML gateway is conveniently located online at:

<https://xmlgate.CompuBonus.dk/XmlGate.asp>

If the previous line is entered into a browser, the system will return something like this:

```
<?xml version="1.0" encoding="windows-1252" ?>
- <Output>
  <WinVersion>1.0.4</WinVersion>
  <HelpVersion>1.0.0</HelpVersion>
  <ErrMsg>Invalid username/password</ErrMsg>
</Output>
```

Of course we haven't delivered any parameters to the system, so naturally the system returns with an error message, telling us that without a valid username and corresponding password – we won't have access.



Note that on every call to the gateway, two variables are always returned regardless of username, password and other parameters. The variables are:

WinVersion	Which is the current version number of the CompuBonus application.
HelpVersion	Which is the current version number of the Online helpsystem.

Syntax

Input is delivered to the gateway through querystring parameters – i.e.

```
...XmlGate.asp?usr=username&pwd=password
```

Every single call to the gateway requires, as a minimum, the following parameters:

Usr	Username of a user with administration privileges i.e. " superadmin "
Pwd	Password to the before mentioned user i.e. " superpass "
Lang	Set witch language you want to use i.e. " dk " for Danish (optional) (The default language is " gb ")
Action	Specifies the action you wish the system to perform i.e. " CardLookup " Please note that actions are CASE SENSITIVE.

Furthermore, an action requires a certain amount of parameters. They have been named a, b, c, d... etc. and the amount of parameters are determined by the action called.

I.e. the action "CardLookup" requires a cardnumber as a parameter. In that case parameter **a** is the cardnumber and a call to the gateway will look something like this:

```
...XmlGate.asp?usr=superadmin&pwd=superpass&action=CardLookup&a=12345678
```

-OR-

```
...XmlGate.asp?usr=superadmin&pwd=superpass&lang=dk&action=CardLookup&a=12345678
```

The cardnumber 12345678 is entered as the variable **a**. (A list of functions and their respective parameters can be found further down this document).
Output is returned as regular XML as shown below.



```
<?xml version="1.0" encoding="windows-1252" ?>
- <Output>
- <CustomerLookup>
  <K_id>1</K_id>
  <K_Portal>1</K_Portal>
  <K_Firstname>TestName</K_Firstname>
  <K_Lastname>TestLastName</K_Lastname>
  <K_Address>Teststreet 242</K_Address>
  <K_Zipcode>0001</K_Zipcode>
  <K_City>TestCity</K_City>
  <K_Phone>11223344</K_Phone>
```

Important!

If for some reason a function does not complete as intended – it will return an appropriate error message in the <errmsg> tag. Therefore if no <errmsg> is present, the function has completed successfully.

Functions (Actions)

CardLookup Parameters:

- a: **CardNumber** (Takes the 8 char- OR the 16 char cardnumber)
- b: Set to Active, NonActive and All to get packages

Limit the number of logentries returned (optional)

Returns:

- <C_id> - The id of the card (CardId)
- <C_Portal> - The id of the Portal the Card belongs to
- <C_CardType> - the id of the cardtype (CardtypeId)
- <C_Cardnr1> - Cardnumber – the number that appears on the card
- <C_Cardnr2> - Cardnumber – the number that appears on the card
- <C_CustomerId> - id of the customer the card belongs to (CustomerId)
- <C_IssuedDate> - Timestamp of the card being issued
- <C_IssuedBy> - id for the issuer who issued the card (IssuerId)
- <C_IssuedSystem> - id for the system that issued the card
- <C_ChangedDate> - Timestamp, last changed
- <C_ChangedBy> - id for the issuer who last changed the card (IssuerId)
- <C_ChangedSystem> - id for the system that last changed the card
- <C_LastLogin> - Timestamp, last login
- <C_Status> - id of current status of the card (StatusId)
- <Pg_id id="**PackagesId**"> - only visible if b is set to True

Example:

xmlGate.asp?usr=username&pwd=password&action=CardLookup&a=12345678&b=Active

GetCardInfo

Parameters:

- a: **CardNumber** (Takes the 8 char- OR the 16 char cardnumber)
- b: Set to Active, NonActive and All to get packages

Function:

Returns relevant information about the card, owner

Returns:

<C_id> - The id of the card (CardId)
<C_Portal> - The id of the Portal the Card belongs to
<C_CardType> - the id of the cardtype (CardtypeId)
<C_Cardnr1> - Cardnumber – the number that appears on the card
<C_Cardnr2> - Cardnumber – the number that appears on the card
<C_CustomerId> - id of the customer the card belongs to (CustomerId)
<C_IssuedDate> - Timestamp of the card being issued
<C_IssuedBy> - id for the issuer who issued the card (IssuerId)
<C_IssuedSystem> - id for the system that issued the card
<C_ChangedDate> - Timestamp, last changed
<C_ChangedBy> - id for the issuer who last changed the card (IssuerId)
<C_ChangedSystem> - id for the system that last changed the card
<C_LastLogin> - Timestamp, last login
<C_Status> - id of current status of the card (StatusId)
<K_id> -The id of the customer (CustomerId)
<K_Portal> - The id of the Portal the Customer belongs to
<K_Firstname> - Firstname
<K_Lastname> - Lastname
<K_Address> - Address
<K_Zipcode> - ZipCode
<K_City> - City
<K_Phone> - Phone
<K_MobilPhone> - Mobile phone
<K_Fax /> - Fax
<K_Country> - Country
<K_Email> - E-mail
<K_Interests> - Interests (An array of interest id's)
<K_Password> - Password
<K_SecretQuestion> - Secret Question (If password is forgotten)
<K_SecretAnswer> - Secret answer to the before mentioned question
<K_Balance> - Current balance of the customer (In points – Not EURO)
<S_status> - Textual description of the status
<T_id>**1**</T_id>
<T_MinPointsBeforeWithdrawal> - Minimum of point allowed to withdraw
<T_PointExchangeRate> - The actual exchangerate
<T_Portal> - Portal Id
<T_Terms> - Terms of use
<T_cardTypeName> - Name of the cardtype
<Pg_id id="**PackagesId**"> - only visible if b is set to True

Example:



```
xmlGate.asp?usr=username&pwd=password&action=GetCardInfo&a=12345678&b=Active
```

CustomerLookup

Parameters:

- a: **CustomerId** (See CardLookup above)
- b: Set to Active, NonActive and All to get packages

Returns:

- <K_id> - The id of the customer (CustomerId)
- <K_Portal> - The id of the Portal the Customer belongs to
- <K_Firstname> - Firstname
- <K_Lastname> - Lastname
- <K_Address> - Address
- <K_Zipcode> - ZipCode
- <K_City> - City
- <K_Phone> - Phone
- <K_MobilPhone> - Mobile phone
- <K_Fax /> - Fax
- <K_Country> - Country
- <K_Email> - E-mail
- <K_Interests> - Interests (An array of interest id's)
- <K_Password> - Password
- <K_SecretQuestion> - Secret Question (If password is forgotten)
- <K_SecretAnswer> - Secret answer to the before mentioned question
- <K_Balance> - Current balance of the customer (In points – Not EURO)
- <Pg_id id="**PackagesId**"> - only visible if b is set to True

Example:

```
xmlGate.asp?usr=username&pwd=password&action=CustomerLookup&a=2&b=Active
```

CustomerSearch

Parameters:

a: **SearchWord** (The search word can either a name, phonenummer or an email address. The search word must be at least six characters long.)

Returns:

```
<K_id id="CustomerID">
  <K_id> -The id of the customer (CustomerId)
  <K_Portal> - The id of the Portal the Customer belongs to
  <K_Firstname> - Firstname
  <K_Lastname> - Lastname
  <K_Address> - Address
  <K_Zipcode> - ZipCode
  <K_City> - City
  <K_Phone> - Phone
  <K_MobilPhone> - Mobile phone
  <K_Fax /> - Fax
  <K_Country> - Country
  <K_Email> - E-mail
  <K_Interests> - Interests (An array of interest id's)
  <K_Password> - Password
  <K_SecretQuestion> - Secret Question (If password is forgotten)
  <K_SecretAnswer> - Secret answer to the before mentioned question
  <K_Balance> - Current balance of the customer (In points – Not EURO)
  <Cards>
    <C_id id="CardID">
      <C_id> - The id of the card (CardId)
      <C_Portal> - The id of the Portal the Card belongs to
      <C_CardType> - the id of the cardtype (CardtypeId)
      <C_Cardnr1> - Cardnumber – the number that appears on the card
      <C_Cardnr2> - Cardnumber – the number that appears on the card
      <C_CustomerId> - id of the customer the card belongs to
      <C_IssuedDate> - Timestamp of the card being issued
      <C_IssuedBy> - id for the issuer who issued the card (IssuerId)
      <C_IssuedSystem> - id for the system that issued the card
      <C_ChangedDate> - Timestamp, last changed
      <C_ChangedBy> - id for the issuer who last changed the card
      <C_ChangedSystem> - id for the system that last changed the card
      <C_LastLogin> - Timestamp, last login
      <C_Status> - id of current status of the card (StatusId)
    </C_id>
  </Cards>
</K_id>
```

Example:

xmlGate.asp?usr=username&pwd=password&action=CustomerSearch&a=SearchWord



StatusLookup

Parameters:

a: **StatusId** (See CardLookup above)

Returns:

- <S_id> -The id of the status (StatusId)
- <S_portal> - The id of the Portal the status belongs to
- <S_status> - Textual description of the status

Example:

xmlGate.asp?usr=username&pwd=password&action=StatusLookup&a=1

IssuerLookup

Parameters:

a: **IssuerId** (See CardLookup above)

Returns:

- <I_id> -The id of the issuer (IssuerId)
- <I_portal> - The id of the Portal the issuer belongs to
- <I_Name> - Name of the issuer
- <I_Country> - The country in which the issuer reside

Example:

xmlGate.asp?usr=username&pwd=password&action=IssuerLookup&a=2

CardtypeLookup

Parameters:

a: **CardtypeId** (See CardLookup above)

Returns:

- <T_id>1</T_id>
- <T_MinPointsBeforeWithdrawal> - Minimum of point allowed to withdraw
- <T_PointExchangeRate> - The actual exchangerate
- <T_Portal> - Portal Id
- <T_Terms> - Terms of use
- <T_cardTypeName> - Name of the cardtype

Example:

xmlGate.asp?usr=username&pwd=password&action=CardtypeLookup&a=1



TranstypeLookup

Parameters:

a: **TranstypeId** (See LogLookup below)

Returns:

<Y_id> - id of the transactiontype (TranstypeId)

<Y_Portal> - id of the portal the transactiontype belongs to

<Y_Transtype> - Name of the transactiontype

Example:

xmlGate.asp?usr=username&pwd=password&action=TranstypeLookup&a=1

BlockCard

Parameters:

a: **CardId**

b: Reason for blocking the card, max. 254 chars – no special chars

Function:

Blocks a card setting its status to “Blocked”

(Use UnblockCard to unblock a card ☺)

Returns:

<Msg> - “Success” if function completes

Example:

xmlGate.asp?usr=username&pwd=password&action=BlockCard&a=1&b=Card was stolen

UnBlockCard

Parameters:

a: **CardId**

b: Reason for unblocking the card, max. 254 chars – no special chars

Function:

Unblocks a card setting its status to “Active/Unactivated” depending on its previous state

(Use BlockCard to block a card ☺)

Returns:

<Msg> - “Success” if function completes

Example:

xmlGate.asp?usr=username&pwd=password&action=UnBlockCard&a=1&b=Card was found again

AddPointsMulti

Parameters:

a: CardId

b: TransString

TransString is a LongVarChar string with the following syntax:

 $X \backslash Y \backslash Z \mid X \backslash Y \backslash Z \mid X \backslash Y \backslash Z \mid X \backslash Y \dots \text{etc.}$ X = PointTypeId Y = Transaction text/description Z = Amount in EURO (Use "." as the decimal divider)

Function:

Runs one or multiple Add-Points-To-Card transactions

Returns:

<Msg> - "Success" if function completes

Example:

```
xmlGate.asp?usr=username&pwd=password&action=AddPointsMulti&a=1&b=1\Test Transaction\10.50|2\Another Test Transaction\4.87
```

RedeemPointsMulti

Parameters:

a: CardId

b: TransString

TransString is a LongVarChar string with the following syntax:

 $X \backslash Y \backslash Z \mid X \backslash Y \backslash Z \mid X \backslash Y \backslash Z \mid X \backslash Y \dots \text{etc.}$ X = PointTypeId Y = Transaction text/description Z = Amount in EURO (Use "." as the decimal divider)

Function:

Runs one or multiple Redeem-Points-From-Card transactions

Returns:

<Msg> - "Success" if function completes

Example:

```
xmlGate.asp?usr=username&pwd=password&action=RedeemPointsMulti&a=1&b=1\Test Transaction\10.50|2\Another Test Transaction\4.87
```



EditCustomerInfo

Parameters:

- a: CardId
- b: CustomerId
- c: First name
- d: Last name
- e: Address
- f: ZipCode
- g: City
- h: Country
- i: E-mail
- j: Phone
- k: Fax
- l: Password
- m: Secret Question
- n: Secret Answer
- o: Interests
- p: Mobile phone

Interests is defined as an array of **InterestId**'s but it should generally not be changed from the administration and only by the customer himself.

Function:

Edits a customers info

Returns:

<I_CustomerId> - Id of the customer just edited

Example:

xmlGate.asp?usr=username&pwd=password&action=EditCustomerInfo&a=1&b=1&c=&d=&e=&f=&g=&h=&i=&j=&k=&l=&m=&n=&o=1,2,3,4&p=

CreateNewCard

Parameters:

- a: Cardnumber (The card that has just been scanned and you wish to create in the system)
- b: CustomerId – Can add card to existing customer OR make a new card. If CustomerId is numeric – the card is added to existing customer. If CustomerId is “new” then a new card I created.
- c: CardType.

Function:

Creates a new card to an existing customer OR to a new customer.

Returns:

<O_CardId> - Id of the card just created



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<O_CustId> - Id of the customer just created/edited

<O_Portal> - Id of the portal which the new card belongs to

Example:

XmlGate.asp?usr=username&pwd=password&action=CreateNewCard&a=12345678&b=1&c=1

-OR-

XmlGate.asp?usr=username&pwd=password&action=CreateNewCard&a=12345678&b=new&c=1

-OR-

XmlGate.asp?usr=username&pwd=password&action=CreateNewCard&a=new&b=new&c=1

-OR-

XmlGate.asp?usr=username&pwd=password&action=CreateNewCard&a=new&b=1&c=1

GetPointTypes

Parameters:

a: CardType

b: TransactionType (TransType)

The transactiontype is "1" for adding points, "2" for redeeming points.

Function:

Returns all relevant information regarding PointTypes and calculated PointRates (PointRate is how much (returned as decimal – meaning : 0.45 = 45%) a given transaction should give in the form of points/euro). Furthermore it is described whether the pointtype is standard or if for some reason it is forced. If it is forced – the issuer/administrator that forced it, will be outputted here.

Returns:

<Pt_pointTypes> - Array of the following formula:

TransactionType✕Text✕Alternative
Text✕PointRate✕Standard/Forced | TransactionType✕Tex...

Example:

XmlGate.asp?usr=username&pwd=password&action=GetPointTypes&a=1&b=1



UserLookup

Parameters:
None

Function:
Returns information about the current user.

Returns:
<U_id> - UserId
<U_username> - Username
<U_password> - Password
<U_name> - Real name
<U_IssuedBy> - Employer/Issuer
<U_LastLogin> - Last login

Example:

xmlGate.asp?usr=username&pwd=password&action=UserLookup

Login

Parameters:
None

Function:
Can be used as a "login". Returns user information + portal information

Returns:
<U_id> - UserId
<U_username> - Username
<U_password> - Password
<U_name> - Real name
<U_IssuedBy> - Employer/Issuer
<U_LastLogin> - Last login
<P_id> - PortalId
<P_site> - Sitename
<P_portalname> - PortalName
<P_ExchangeRate> - Default exchangerate
<P_Currency> - Currency

Example:

xmlGate.asp?usr=username&pwd=password&action=Login

LogLookup

Parameters:

a: CustomerId

b: Limit the number of log entries returned (optional)

Function:



Can be used as a "login". Returns user information + portal information

Returns:

```
<L_id id="LogId">
  <L_Portal> - Portal Id
  <L_Dato> - Timestamp
  <L_CustomerId> - Customer Id
  <L_CardNr> - Card Number
  <L_IssuedBy> - Issuer (Text, not Id)
  <L_TransType> - Transaction type (Text, not id)
  <L_Amount> - Amount in points
  <L_Description> - Transaction description
  <L_BalanceBefore> - Balance in points before transaction
  <L_BalanceAfter> - Balance in points after transaction
</L_id>
```

Example:

```
xmlGate.asp?usr=username&pwd=password&action=LogLookup&a=1
```

CreatePackage Parameters:

a: PackageTypeID

b: CustomerId

c: CardId

d: BalanceNow (optional)

e: Status 1=Active; 2=Unactivated; if Status is empty it will be set as 2 (optional)

Function:

Can be used to Create a new package, from a packagetype. Returns a message.

Returns:

```
<Msg> - "Success" if function completes
```

Example:

```
xmlGate.asp?usr=username&pwd=password&action=CreatePackage&a=1&b=1&c=1&d=100&e=2
```



AddCardNrToCard Parameters:

a: **CardId**

b: **CardNumber** (Takes the 8 char- OR the 16 char cardnumber)

Function:

Can be used to add a cardnumber to a card.

Returns:

<C_id> - CardId

<Msg> - "Success" if function completes

Example:

xmlGate.asp?usr=username&pwd=password&action=AddCardNrToCard&a=1&b=12345678

PackageLookup Parameters:

a: **Package Id**

Function:

Returns relevant information about the package

Returns:

<Pg_id> - Package id

<Pg_Portal> - The id of the Portal

<Pg_CustomerId> - Customer id

<Pg_CardId> - Card id

<Pg_PackageTypeId> - PackageType id

<Pg_IssuedDateTime> - Timestamp

<Pg_IssuedBy> - Issuer as text

<Pg_Price> - Price as double

<Pg_BalanceBegin> - Timestamp

<Pg_BalanceNow> - Balance as double

<Pg_ValidFrom> - Timestamp

<Pg_ValidTo> - Timestamp

<Pg_Status> - Status as text

Example:

xmlGate.asp?usr=username&pwd=password&action=PackageLookup&a=1

PackageLogLookup Parameters:

- a: **Package Id**
b: Limit the number of log entries returned (optional)

Function:

Returns relevant information about the package

Returns:

<PgLog_id id="**Package id**"> - Package id
<PgLog_id> - Package id
<PgLog_PortaID> - The id of the Portal
<PgLog_TranslogID> - Trans log id
<PgLog_PackageID> - Package id
<PgLog_CardID> - Card id
<PgLog_DateTime> - Timestamp
<PgLog_IssuedBy> - Issuer as text
<PgLog_TransactionType> - Transaction type as text
<PgLog_UserString> - Text
<PgLog_Amount> - Amount as double
<PgLog_BalanceBefore> - Balance as double
<PgLog_BalanceAfter> - Balance as double
<PgLog_From> - Timestamp
<PgLog_To> - Timestamp
<PgLog_NumPersons> - Number of persons
<PgLog_NumOvernights> - Number of overnights
</PgLog_id>

Example:

xmlGate.asp?usr=username&pwd=password&action=PackageLogLookup&a=1

PackageAction

Parameters:

- a: **PackageID**
b: **CardID**
c: **PackageTransactionType** 1=Webshop sale;
2=Campsite sale;
3=Campsite visit/checkout;
d: **UserString**
e: **Amount**
f: **From**
g: **To**
h: **NumPersons**
i: **NumOvernights**
j: **LocalCustomerID**
k: **LocalInvoiceNumber**
l: **LocalObjectCategori**

Function:

Adds information to the package.



Returns:

<Msg> - Success

Example:

```
xmlGate.asp?usr=username&pwd=password&action=AddToPackageLog&a=1&b=1&c=1&d=text&e=1&f=&g=&h=&i=&j=&k=&l=
```

PackagesLookup Parameters:

a: Customer Id

Function:

Returns a list of relevant information about the packages

Returns:

```
<Pg_id id="Package id"> - Package id
<Pg_Portal> - The id of the Portal
<Pg_CustomerId> - Customer id
<Pg_CardId> - Card id
<Pg_PackageTypeId> - PackageType id
<Pg_IssuedDateTime> - Timestamp
<Pg_IssuedBy> - Issuer as text
<Pg_Price> - Price as double
<Pg_BalanceBegin> - Timestamp
<Pg_BalanceNow> - Balance as double
<Pg_ValidFrom> - Timestamp
<Pg_ValidTo> - Timestamp
<Pg_Status> - Status as text
</Pg_id>
```

Example:

```
xmlGate.asp?usr=username&pwd=password&action=PackagesLookup&a=1
```

PackageTypeLookup Parameters:

a: PackageType Id

Function:

Returns relevant information about the package type

Returns:

```
<PgType_id> - Packagetype id
<PgType_Portal> - The id of the Portal
<PgType_CardTypes> - Card types as id's
```



<PgType_Description> - Description as text
<PgType_ValidFrom> - Timestamp
<PgType_ValidTo> - Timestamp
<PgType_Price> - Price as double
<PgType_SaleActiveFrom> - Timestamp
<PgType_SaleActiveTo> - Timestamp
<PgType_PackageFunktion> - PackageFunktion

Example:

xmlGate.asp?usr=username&pwd=password&action=PackageTypeLookup&a=1

PackageTypesLookup Parameters:

a: Portal Id
b: CardType (optional)

Function:

Returns relevant list of information about the package types

Returns:

<Pg_id id="PackageType id"> - PackageType id
<PgType_Portal> - The id of the Portal
<PgType_CardTypes> - Card types as id's
<PgType_Description> - Description as text
<PgType_ValidFrom> - Timestamp
<PgType_ValidTo> - Timestamp
<PgType_Price> - Price as double
<PgType_SaleActiveFrom> - Timestamp
<PgType_SaleActiveTo> - Timestamp
<PgType_PackageFunktion> - PackageFunktion
</Pg_id>

Example:

xmlGate.asp?usr=username&pwd=password&action=PackageTypesLookup&a=1&b=0

Questions?

Questions about the XML gateway or CompuBonus in general can be submitted to th@compusoft.dk