

Ditech meters interface – Bozen customization

Protocol: HTTP Mode: XML

Important:

- a) The parking meter is considered a virtual automatic cash desk
- b) The commands and answers provided are constantly evolving. The final version will be sent at the time of integration.

Abbreviations

1 Abbreviations

In this document the following abbreviations are used:

DBS	Server of the car park management system	
CPMS	Car park management system	
PM XSERVER	Name of the car park management system	

2 card identification

Proximity cards are identified by their UID. By processing the UID and sending this to the PM XSERVER system the following process must be respected:

When the UID of the card is "ABCDEF12", it must be

1. converted to 122EFCDAB or similar (Bozen standard communication from Ditech)
2. a prefix "EMI" must be added to the UID before it is sent via webservice.

For "ABCDEF12" the following UID "EMI122EFCDAB" must be sent to PM XSERVER.

3 Webservice

User	String	XSERVER username
Pwd	String	XSERVER password
TccNr	String	Terninal Number, which represents the 3 rd party location.
Card-ID	String	Card-UID of the card

3.1.1 HTTP GET

GET

/XSERVERWebservice/ServiceCashPoint.asmx/getCardinfo?UserID=string&UserPWD=string
&TccNum=string&CardNumber=string HTTP/1.1 Host: ex.

192.xx.x.xxx

HTTP/1.1 200 OK

Content-Type: text/xml; charset=utf-8 Content-Length: length

```
<?xml version="1.0" encoding="utf-8"?>
<Cardinfo xmlns="http://www.XSERVER.IT/">
  <AmountPaid>int</AmountPaid>
  <AmountDue>int</AmountDue>
  <AmountDueCurrency>decimal</AmountDueCurrency>
  <AmountDuePeriodStart>dateTime</AmountDuePeriodStart>
  <AmountDuePeriodEnd>dateTime</AmountDuePeriodEnd>
  <CardUiD>guid</CardUiD>
  <iSONumber>string</iSONumber>
  <CardType>int</CardType>
  <CarparkUiD>guid</CarparkUiD>
  <CarparkNr>int</CarparkNr>
  <CodingTime>dateTime</CodingTime>
  <LastTccNumber>int</LastTccNumber>
  <LastTccTime>dateTime</LastTccTime>
  <NumberOfPayments>int</NumberOfPayments>
  <GracePeriod>int</GracePeriod>
  <VAT>int</VAT>
  <MoneyConversionFactor>decimal</MoneyConversionFactor>
  <Currency>string</Currency>
  <Cheater>boolean</Cheater>
  <Rabattinfo>
    <Wert>int</Wert>
    <Zeit>int</Zeit>
    <Promille>int</Promille>
    <PromilleGeb>int</PromilleGeb>
    <GiD>int</GiD>
    <NullUntil>int</NullUntil>
    <CaOrder>string</CaOrder>
    <WertVerr>int</WertVerr>
    <ZeitVerr>int</ZeitVerr>
    <RabattBetragAbsolut>int</RabattBetragAbsolut>
  </Rabattinfo>
</Cardinfo>
```

3.1.2 HTTP POST

POST/XSERVERWebservice/ServiceCashPoint.asmx/getCardinfoHTTP/1.1 Host: ex. 192.xx.x.xxx
Content-Type:application/x-www-form-urlencoded Content-Length:
length

UseriD=string&UserPWD=string&TccNum=string&CardNumber=string
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8 Content-Length: **length**

```
<?xml version="1.0" encoding="utf-8"?>
<Cardinfoxmlns="http://www.XSERVER.IT/">
  <AmountPaid>int</AmountPaid>
  <AmountDue>int</AmountDue>
  <AmountDueCurrency>decimal</AmountDueCurrency>
  <AmountDuePeriodStart>dateTime</AmountDuePeriodStart>
  <AmountDuePeriodEnd>dateTime</AmountDuePeriodEnd>
  <CardUiD>guid</CardUiD>
  <iSONumber>string</iSONumber>
  <CardType>int</CardType>
  <CarparkUiD>guid</CarparkUiD>
  <CarparkNr>int</CarparkNr>
  <CodingTime>dateTime</CodingTime>
  <LastTccNumber>int</LastTccNumber>
  <LastTccTime>dateTime</LastTccTime>
  <NumberOfPayments>int</NumberOfPayments>
  <GracePeriod>int</GracePeriod>
  <VAT>int</VAT>
  <MoneyConversionFactor>decimal</MoneyConversionFactor>
  <Currency>string</Currency>
  <Cheater>boolean</Cheater>
  <Rabattinfo>
    <Wert>int</Wert>
    <Zeit>int</Zeit>
    <Promille>int</Promille>
      <PromilleGeb>int</PromilleGeb>
    <GiD>int</GiD>
    <NullUntil>int</NullUntil>
    <CaOrder>string</CaOrder>
    <WertVerr>int</WertVerr>
    <ZeitVerr>int</ZeitVerr>
    <RabattBetragAbsolut>int</RabattBetragAbsolut>
  </Rabattinfo>
</Cardinfo>
```

Return Values:**Fields**

Carpark	CarparkData	Car park of the card
CardCarriers	List<CardCarrierData>	List of card carriers assigned to this card
Person	PersonData	Cardholder data
Price	PriceData	Price information
CardType	CardType	Type of card
TimeValidFrom	DateTime	Validity of the card
TimeValidTo	DateTime	Validity of the card
TimeLastUsage	DateTime	Time of last usage
AppliciDLastUsage	int	Terminal-Id of last usage 1 = neutral 0 = marked as deleted Even numbers = card is outside the car park Odd numbers = card is inside the car park
TimeCoding	DateTime	Time of coding the card

3.2 WebmethoddebitCard_requestVaive

The method retrieves card data information from the PM-XSERVER-database.

User	String	XSERVER username
Pwd	String	XSERVER password
CP Num	String	Carparc number of the location (to be assigned by designa)
TccNr	String	Terninal Number, which represents the 3 rd party location.
Card-ID	String	Card-ID of the card

HTTP GET

GET

/XSERVERWebservice/ServiceCashPoint.asmx/debitCard_requestValue?UserID=string&UserP
WD=string&CpNr=string&TccNr=string&CardID=string HTTP/1.1

Host: localhost

HTTP/1.1 200 OK

Content-Type: text/xml; charset=utf-8 Content-Length: length

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<decimal xmlns="http://www.XSERVER.IT/">decimal</decimal>
```

HTTP POST

POST/XSERVERWebservice/ServiceCashPoint.asmx/debitCard_requestValueHTTP/1.1 Host: localhost

Content-Type: application/x-www-form-urlencoded Content-Length:

length

UserID=string&UserPWD=string&CpNr=string&TccNr=string&CardID=string

HTTP/1.1 200 OK

Content-Type: text/xml; charset=utf-8 Content-Length: length

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<decimal xmlns="http://www.XSERVER.IT/">decimal</decimal>
```

4.4 WebmethoddebitCard_aiterDebit

The method modifies the debit on the card in the PM-XSERVER-database.

User	String	XSERVER username
Pwd	String	XSERVER password
CP Num	String	Carpark number of the location (to be assigned by designa)
TccNr	String	Terminal Number, which represents the 3 rd party location.
Card-ID	String	Card-ID of the card
Amount	String	Value to be added /deducted from the actual account (may be negative values)
massImport	String	Always "0"

HTTP GET

GET

/XSERVERWebservice/ServiceCashPoint.asmx/debitCard_alterDebit?UserID=string&UserPWD=string&CpNr=string&TccNr=string&CardID=string&amount=string&massImport=string HTTP/1.1

Host: localhost

HTTP/1.1 200 OK

Content-Type: text/xml; charset=utf-8 Content-Length: length

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

<booleanxmlns="http://www.XSERVER.IT/">boolean</boolean>

HTTP POST

POST/XSERVERWebservice/ServiceCashPoint.asmx/debitCard_alterDebitHTTP/1.1 Host: localhost

Webservice

Content-Type: application/x-www-form-urlencoded Content-Length: length

UserID=string&UserPWD=string&CpNr=string&TccNr=string&CardID=string&amount=string&massImport=string

HTTP/1.1 200 OK

Content-Type: text/xml; charset=utf-8 Content-Length: length

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

<booleanxmlns="http://www.XSERVER.IT/">boolean</boolean>