



**GNS -> Directo integration
specification**

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This document will be about GNS sales system integration with Directo. There will be written how GNS is receiving data from Directo and how Directo receives document's from GNS and which documents will be created in this integration. Will be described how works Gift certificate sales and usage as payment.

1. XML interface endpoints

Below You can see URL where can send and get xml's. Correct Url's need to ask DIRECTO support.

1.1. XML out

- Items

- Day change

- https://directo.gate.ee/xmlcore/customer/xmlcore.asp?get=1&what=GNS_item&key=directoapikey

- All items

- https://directo.gate.ee/xmlcore/customer/xmlcore.asp?get=1&what=GNS_item_all&key=directoapikey

- Customers

- Day change

- https://directo.gate.ee/xmlcore/customer/xmlcore.asp?get=1&what=GNS_customer&key=directoapikey

- All customers

- https://directo.gate.ee/xmlcore/customer/xmlcore.asp?get=1&what=GNS_customer_all&key=directoapikey

- Users

- All users

- https://directo.gate.ee/xmlcore/customer/xmlcore.asp?get=1&what=GNS_user&key=directoapikey

1.2. XML IN

- Cash movement- this xml is receiving cashmovement and generating document in Directo

<https://directo.gate.ee/xmlcore/customer/xmlcore.asp?put=1&what=gncashmove>

- Sales Invoice - this xml is receiving POS invoice and generating document in Directo

<https://directo.gate.ee/xmlcore/customer/xmlcore.asp?put=1&what=gsinvoice>

- Get Item price – this xml in is giving Directo price to gns based on customer (checking price formulas for customer/customer class)

<https://directo.gate.ee/xmlcore/customer/xmlcore.asp?put=1&what=row>

2. Received documents

2.1. Cashmoves

After creating Cash movement in GNS it comes to Directo. Document after coming in will be confirmed.

In list this document looks like this:

NUMURS	DATUMS	Lietotājs	No objekta	Uz objektu	KOMENTĀRS	SUMMA AR PVN
2000658	5.11.2019 10:16:03	GNS	XXXX	XXXX	Ielikta nauda kasē ← cash in	
2000651	4.11.2019 20:58:32	GNS	XXXX	XXXX	Izdota nauda no kases ← cash out	

Cash movements List

Move in example:

Aizvērt Jauns Kopēt Dzēst Apstiprināt Saglabāt Drukāt F << >> Statuss: Saglabāts

Numurs 2000658

Galvenais Saskaņošana

Datums 5.11.2019 10:16:03 No darba vietas XXXX Darba vietā XXXX
Lietotājs GNS No maksājuma veida KK Uz apmaksas veidu S
Dokuments 1098 No objekta XXXX Uz objektu XXXX
No projekta Uz projektu

Komentārs Ielikta nauda kasē

Summa ar PVN 0.83 Valūta EUR Intervāls 1 Bāzes valūta 1 0.83

Pēdējo reizi mainījis:xmlcore 5.11.2019 10:18:17

Cash movement (Move in)

Move out example:

Aizvērt Jauns Kopēt Dzēst Apstiprināt Saglabāt Drukāt F << >> Statuss: Saglabāts

Numurs 2000652

Galvenais Saskaņošana

Datums 4.11.2019 22:02:59 No darba vietas XXXX Darba vietā XXXX
Lietotājs GNS No maksājuma veida S Uz apmaksas veidu KK
Dokuments 1750 No objekta XXXX Uz objektu XXXX
No projekta Uz projektu

Komentārs Izdota nauda no kases

Summa ar PVN 148.73 Valūta EUR Intervāls 1 Bāzes valūta 1 148.73

Pēdējo reizi mainījis:xmlcore 4.11.2019 22:04:32

Cash movement (Move out)

2.2. Sales Invoices

After confirming and printing out sales invoice in GNS it comes to Directo. Document after coming in Directo is confirmed. If the document is not confirmed, employee from company need to open document and has to try to confirm and solve problems why document wasn't confirmed.

In list this document looks like this:

Every POS invoice which is coming in Directo contains GNS numbers, it is filled in Datafield1, GNS invoice comment is coming to invoice comment field. If You want to see those values, then you need to add those columns in POS invoice list. With button "Choose columns"

NUMURS	DATUMS	Klients kods:Nosaukums	Objektagents	KOPĀ	Ok	Samaksas veids	Noliktava	Bilance	Kreditrekins	DARBA VIETA	Projekts	EMPIFIS NR	GNS NR/TRANSPORTA NR	KOMENTĀRS
3356694	5.11.2019 11:46:01	xxxx	xxxx	GNS	48.16	Jā	KA	xxxx	0.00	xxxx	RIGA		xxxx	BONUS = 1.9900 EUR

POS invoice list

Document example:

Nr. Artikuls	Variants	Daudz. %	Apraksts	Cena	Art. cena	Serial No	Kopā	Noliktava	Nolikt. ID	%-kods	Komentārs
1263046	M	1	3.964 KRISTENE Trikotāža, Gaišpelēka	41.28	49.95		47.97				
2224413		1	5 WHITE PAPER XS BAG	0.17	0.2		0.19				
3	BONUS	1.99	0 Bonus €	0	0		0				
4											

POS invoice document

3. Gift Card

GNS gift cards are sold as item with barcode. At first if you want to sell gift card in GNS POS, Directo need to give data that this gift card is not sold yet.

Solution:

1. Need to create regular sales invoice
2. Choose type "gns_gift"
3. Fill item (use gift card item)
4. Fill qty 1
5. Fill unitprice (price w/o VAT)
6. Fill SN
7. Repeat steps 3 – 6 how many gift cards you have in shop to sell
8. You **don't need to confirm** this Invoice
9. **Click only SAVE**, after 10 min your gift card will be in GNS

The screenshot shows a sales invoice interface. At the top, there are tabs for 'Cust order', 'Quotation', and 'Created invoice'. Below these, there is a 'Sent' date and time, a 'Type' dropdown menu set to 'gns_gift', and a 'Status' dropdown menu. Below the invoice header, there is a 'Receipts:' section and a 'Last changed by' field. The main part of the interface is a table with columns for 'NO', 'R', 'Item', 'Qty', 'Unit', 'Description', 'Unitprice', '%', 'Price formula', 'Stock', 'Delivery Date', 'SN', and 'Replace'. The table contains five rows of gift card entries. Red boxes highlight the 'Item', 'Qty', 'Unitprice', and 'SN' columns for the first row.

NO	R	Item	Qty	Unit	Description	Unitprice	%	Price formula	Stock	Delivery Date	SN	Replace
1		GIFT	1		Gift Card	0.00					911136289936170	
2		2 GIFT	1		Gift Card	0.00					911136831323006	
3		3 GIFT	1		Gift Card	0.00					911136715652626	
4		4 GIFT	1		Gift Card	0.00					911136267642984	
5		5 GIFT	1		Gift Card	0.00					911136170395718	

Sales invoice with gift cards

4. XML Examples

4.1. Sales Invoice xml

```
<?xml version="1.0" encoding="UTF-8"?>
<Document>
  <Invoices>
    <Invoice>
      <InvoiceParties>
        <BuyerParty>
          <RegNumber>1111</RegNumber>
          <PartnerCode>1111</PartnerCode>
          <PostalCode>0</PostalCode>
          <PrivatePerson>true</PrivatePerson>
        </BuyerParty>
      </InvoiceParties>
      <InvoiceInformation>
        <InvoiceNumber>9999999</InvoiceNumber>
        <InvoiceData>2019-12-01T14:38:01</InvoiceData>
        <DebCre>DEB</DebCre>
        <Origin>1</Origin>
        <Manager>TEST</Manager>
        <AppKey>customerkey</AppKey>
      </InvoiceInformation>
      <InvoiceSumGroup>
        <InvoiceSum>114.04</InvoiceSum>
        <TotalVATSum>23.96</TotalVATSum>
        <TotalSum>138.00</TotalSum>
        <CustomerOrderNumber/>
      </InvoiceSumGroup>
      <PaymentInformation>
        <Payment>
          <PaymentTotal>138.00</PaymentTotal>
          <Description>CARD</Description>
          <PaymentMethod>2</PaymentMethod>
          <CashierID>11</CashierID>
          <WorkstationNo>1</WorkstationNo>
        </Payment>
      </PaymentInformation>
      <InvoiceItems>
        <InvoiceItem>
          <PostingDate>2019-11-01T14:37:51</PostingDate>
          <ItemTotal>69.00</ItemTotal>
          <VAT>21.0</VAT>
        </InvoiceItem>
      </InvoiceItems>
    </Invoice>
  </Invoices>
</Document>
```

```
<ItemSum>57.020000</ItemSum>
<ItemAmount>1.000</ItemAmount>
<SalesCode>H901104</SalesCode>
<Item>8719475346569</Item>
<CashierID>11</CashierID>
<WorkstationNo>1</WorkstationNo>
<ItemSumWoBonus>57.02479338843</ItemSumWoBonus>
<ItemDiscount>0.0</ItemDiscount>
><RowComment/>
<rn>1</rn>
</InvoiceItem>
<InvoiceItem>
  <PostingDate>2019-11-01T14:37:51</PostingDate>
  <ItemTotal>69.00</ItemTotal>
  <VAT>21.0</VAT>
  <ItemSum>57.020000</ItemSum>
  <ItemAmount>1.000</ItemAmount>
  <SalesCode>H900504</SalesCode>
  <Item>8719475343544</Item>
  <CashierID>11</CashierID>
  <WorkstationNo>1</WorkstationNo>
  <ItemSumWoBonus>57.02479338843</ItemSumWoBonus>
  <ItemDiscount>0.0</ItemDiscount>
  <RowComment/>
  <rn>2</rn>
</InvoiceItem>
</InvoiceItems>
</Invoice>
</Invoices>
</Document>
```

4.2. Cashmoves

Move in

```
<cashmoves>
  <cashmove appkey="directoapikey" number="999999" date="2019-12-06 09:06:29" currency_rate="1" amountwovat="100.00"
amountwithvat="100.00" comment="Ielikta nauda kas?" currency="EUR" sumeur="100.00" currencyrate="1" location1="1"
location2="1"></cashmove>
</cashmoves>
```

Move out

```
<cashmoves>
  <cashmove appkey="directoapikey" number="9999999" date="2019-12-05 20:54:19" currency_rate="1" amountwovat="1010.00"
amountwithvat="100.00" comment="Izdota nauda no kases" currency="EUR" sumeur="1010.00" currencyrate="1" location1="1"
location2="1"></cashmove>
</cashmoves>
```

4.3. Get Price

Sending IN this XML

```
<rows>
  <row number="9999" rn="5" barcode="8719919723000" item="SW100906" shop="1" customer="1111" appkey="directoapikey">
  </row>
</rows>
```

And getting response:

```
<?xml version="1.0" encoding="UTF-8"?>
<results>
  <Result rn="5" barcode="8719919723000" Price="131.4050" bonus="0.0000" shop="1" useBonus="1" useDiscount="1" GiftType="" />
</results>
```