OracleDatabase as Barcode / RFID Solution Provider

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The Customer

Select HW Infrastructure

- Dedicated, standalone barcode solution ?
- Standard, approved Hardware ?

How XML Printing works

Host System → XML-Enabled Printer → Shipping Label

1. XML-Enabled ZPL format is stored in printers memory
2. XML Data Stream is sent from Host to Printer
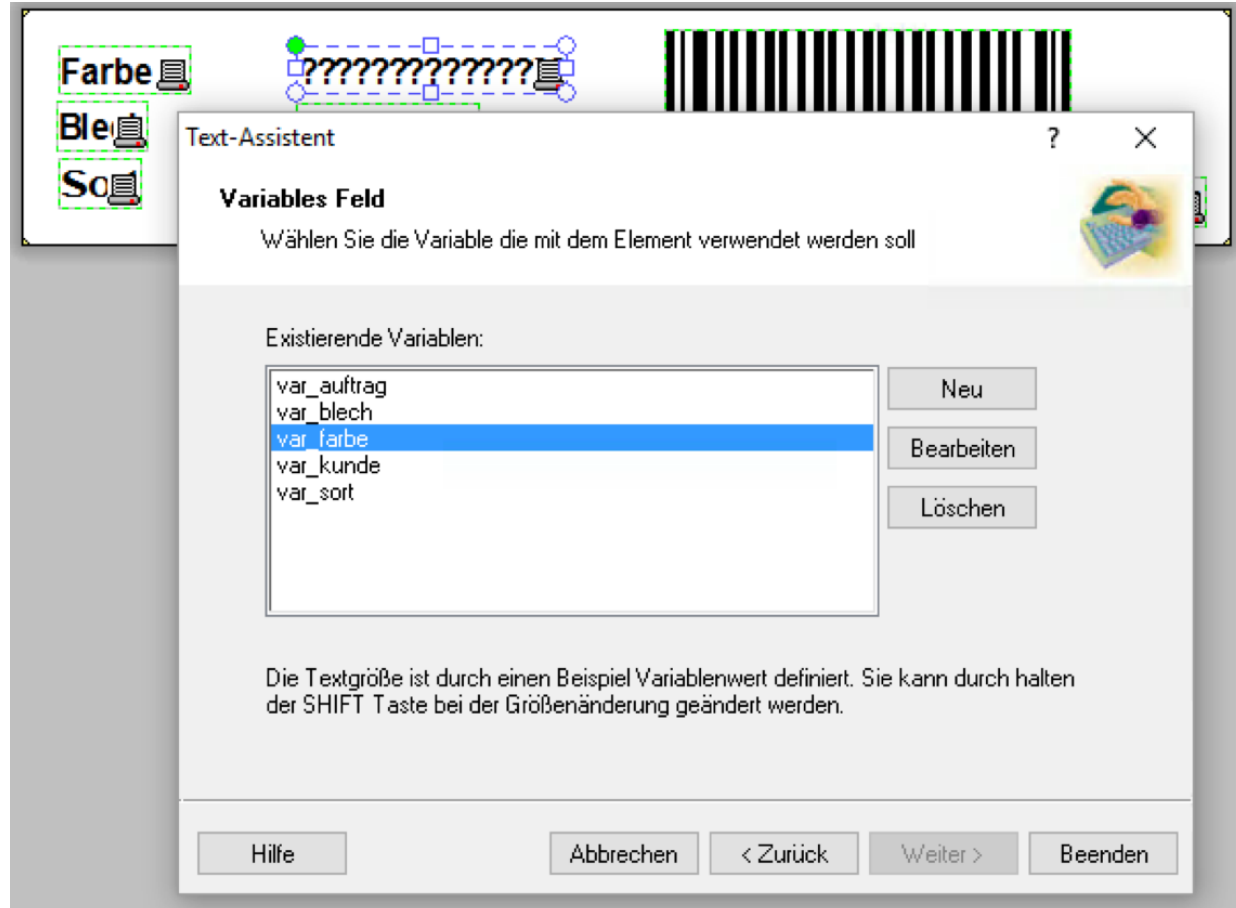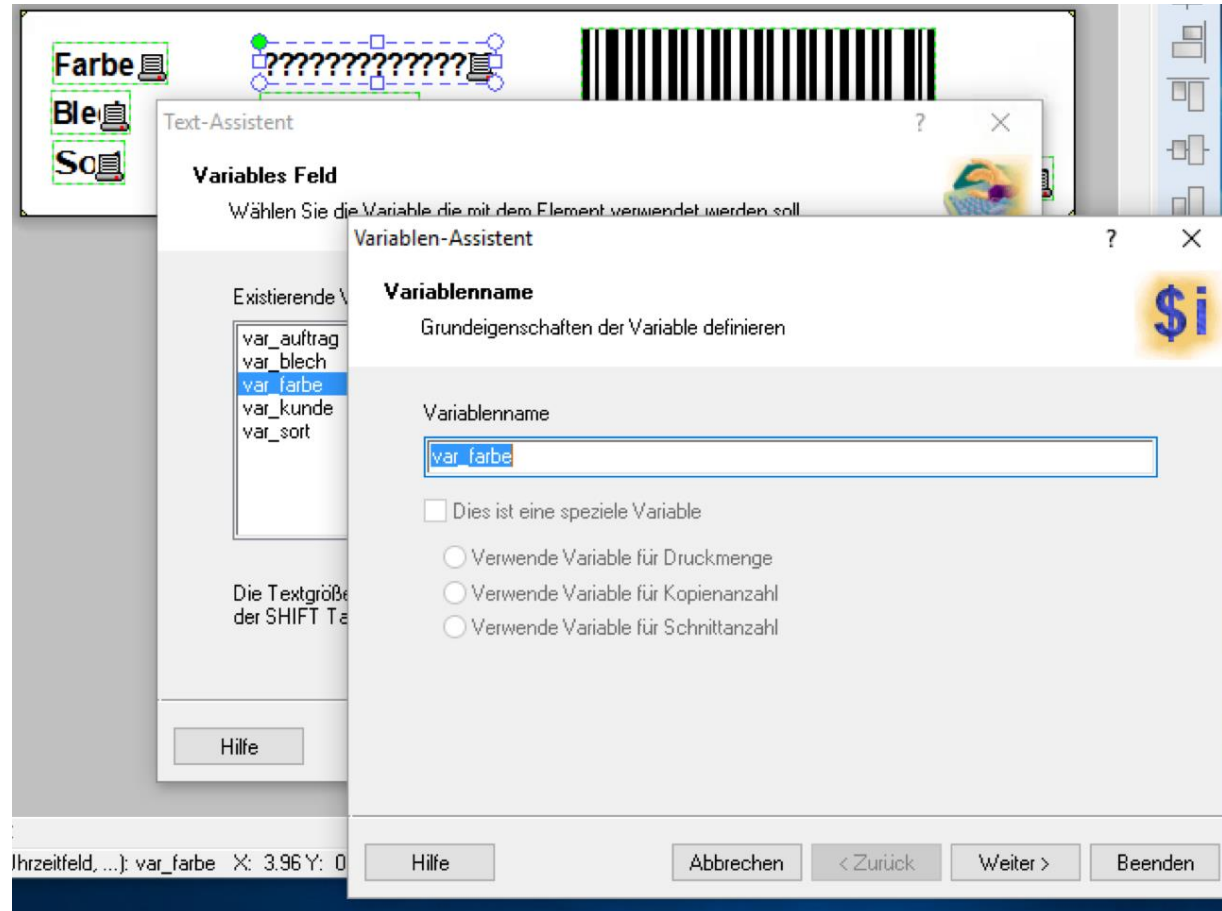3. Printer recalls stored ZPL format and prints label
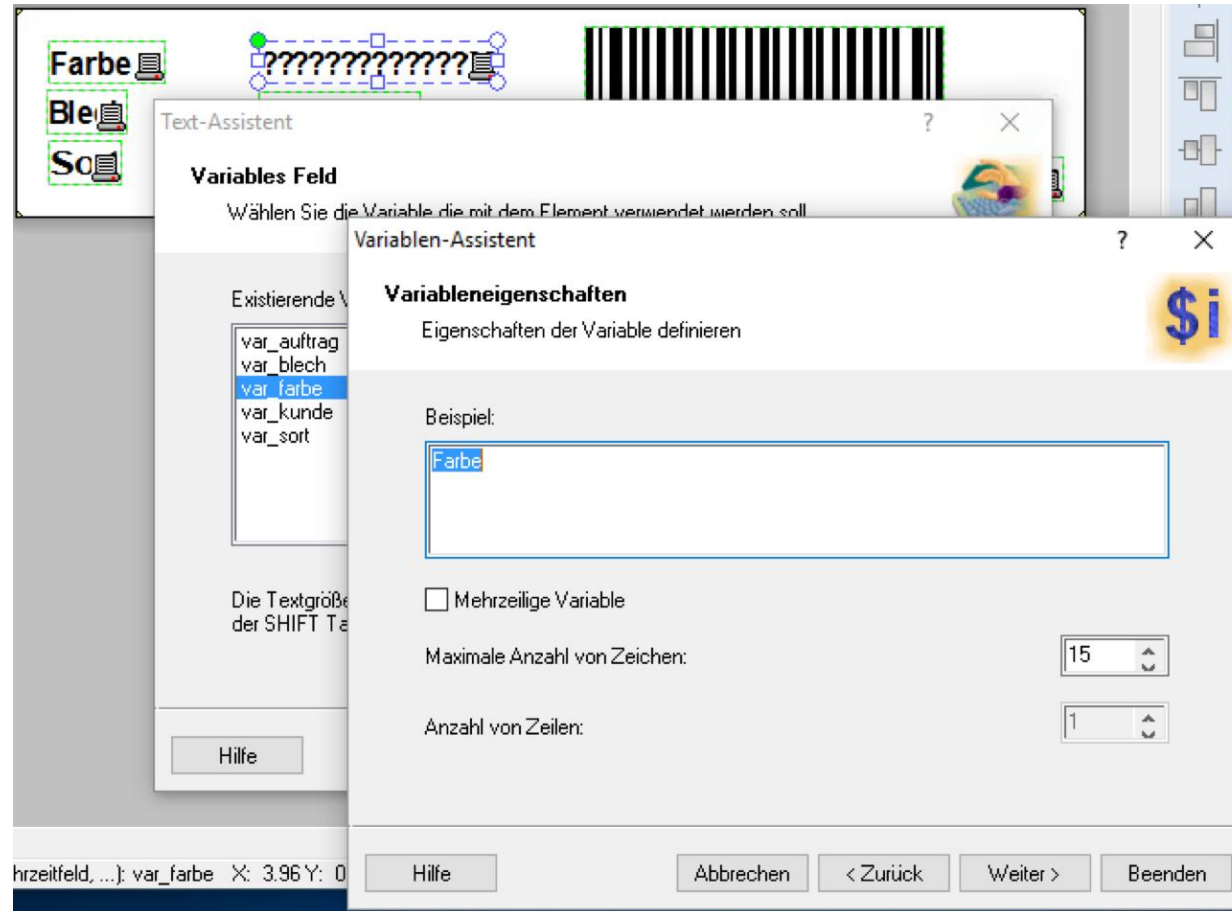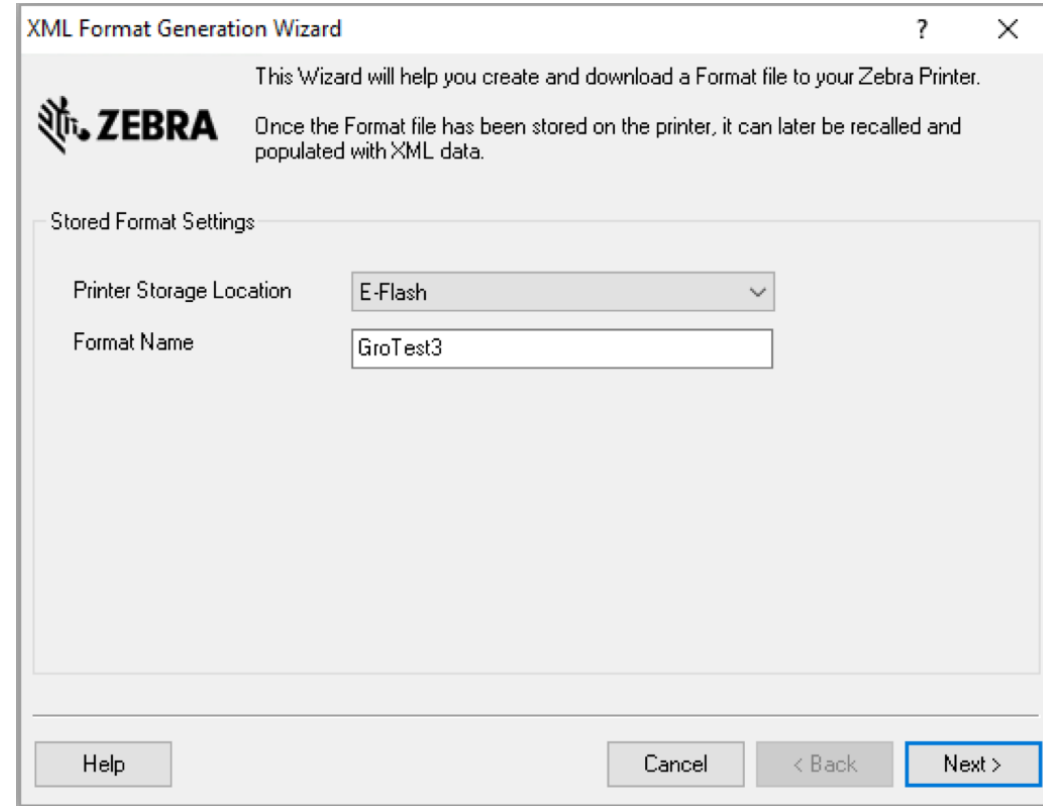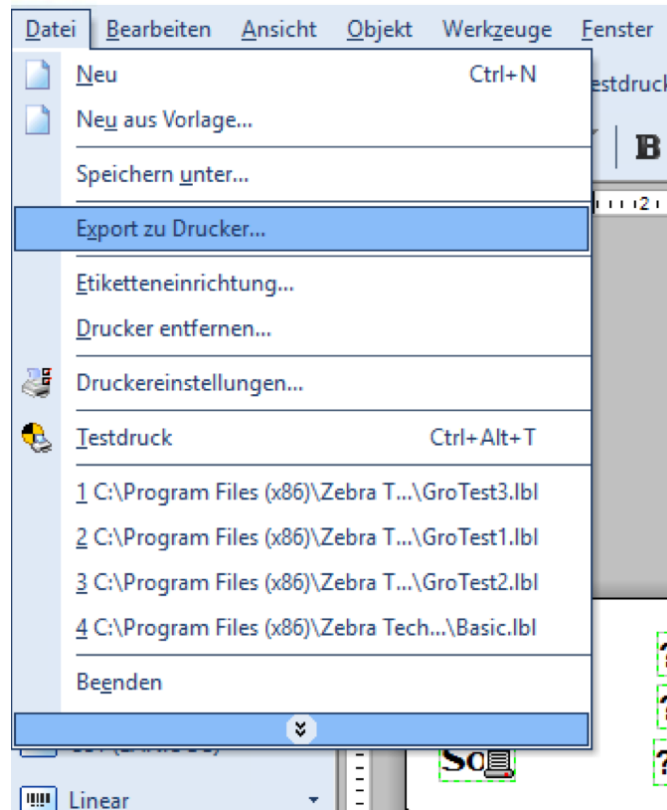
Design Label Layout

Create fixed Label Objects
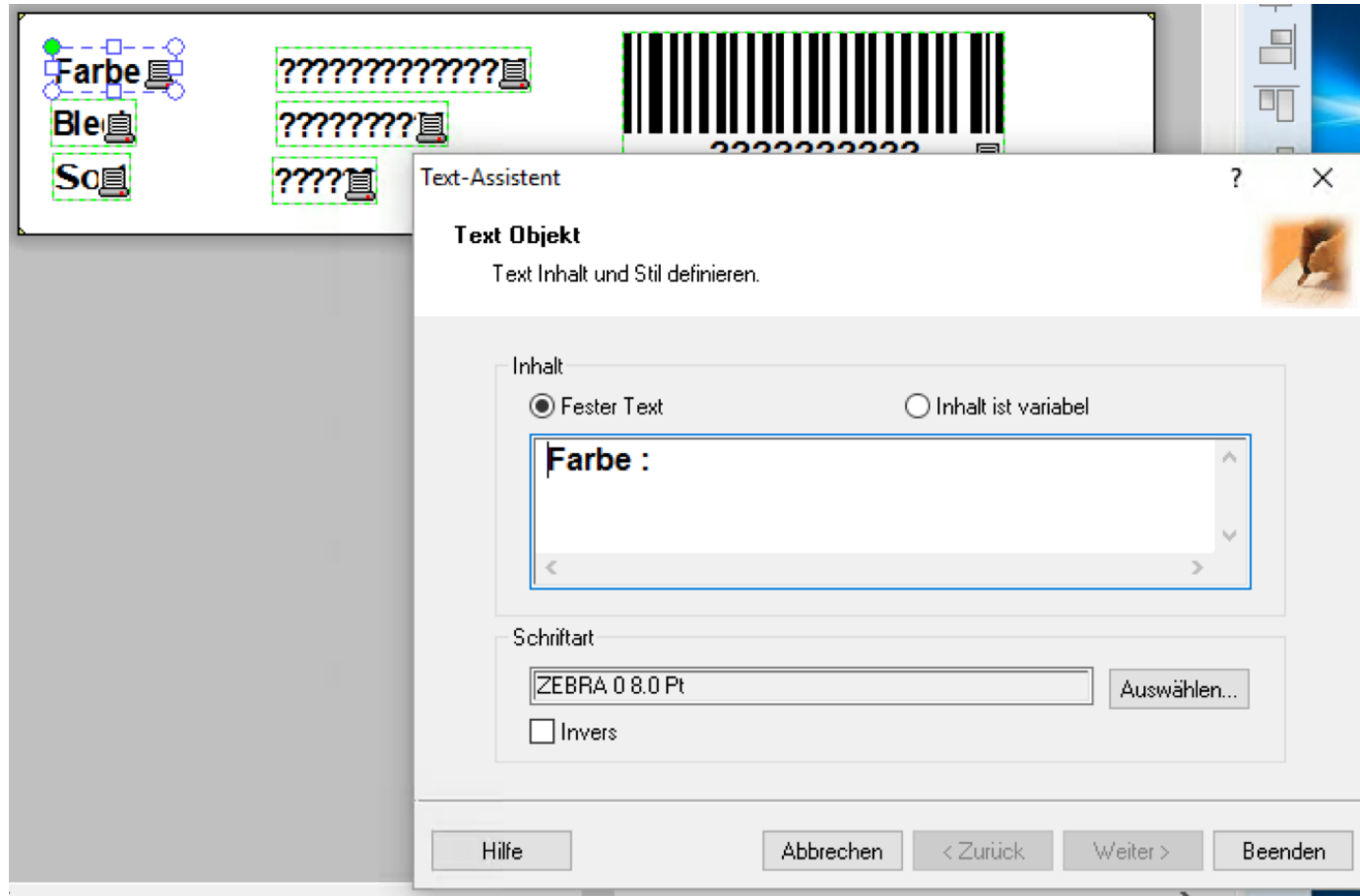
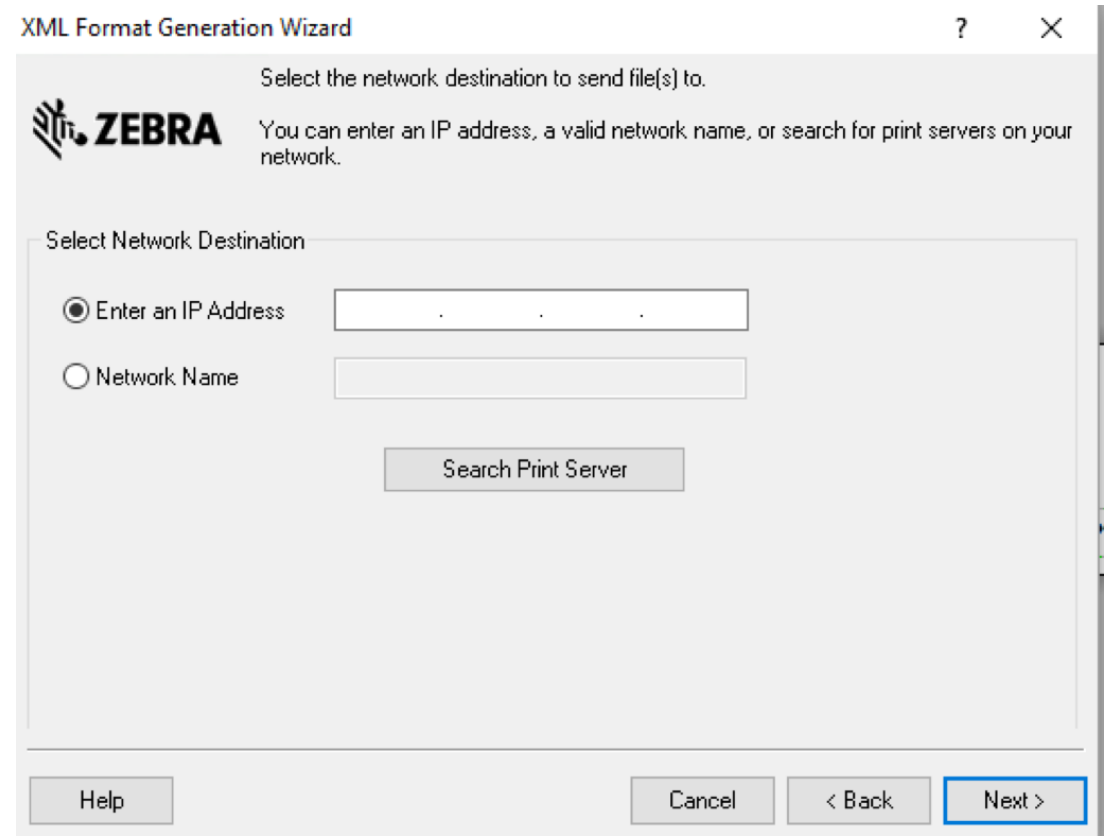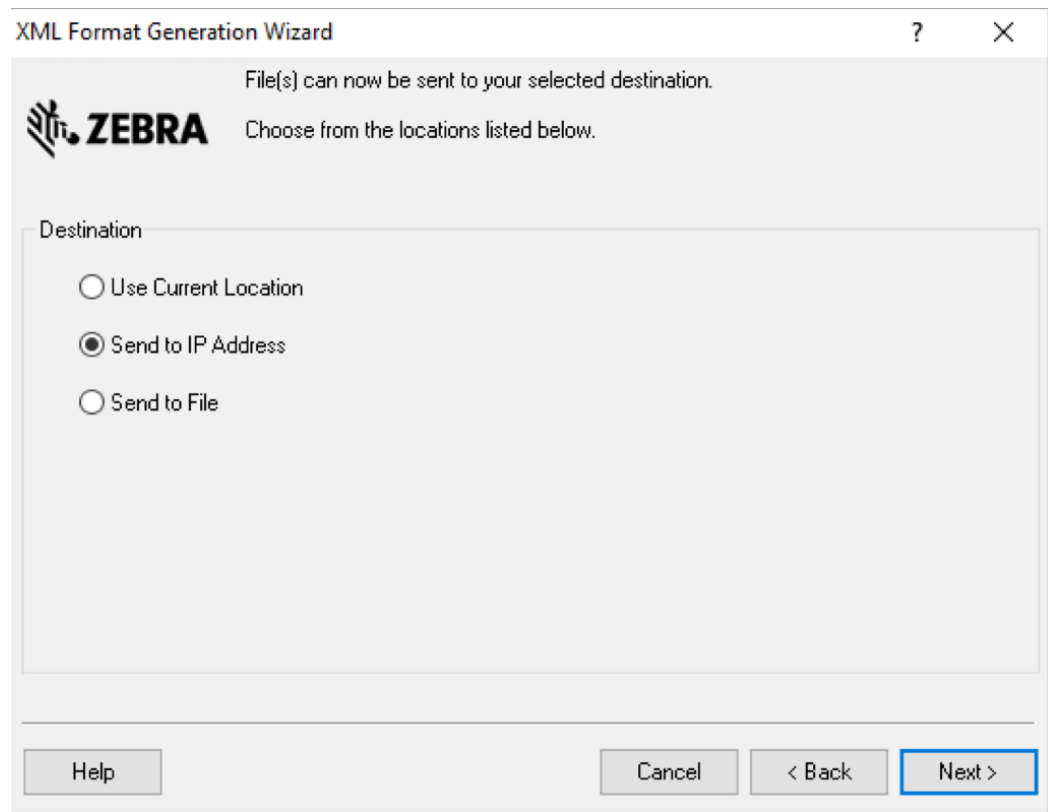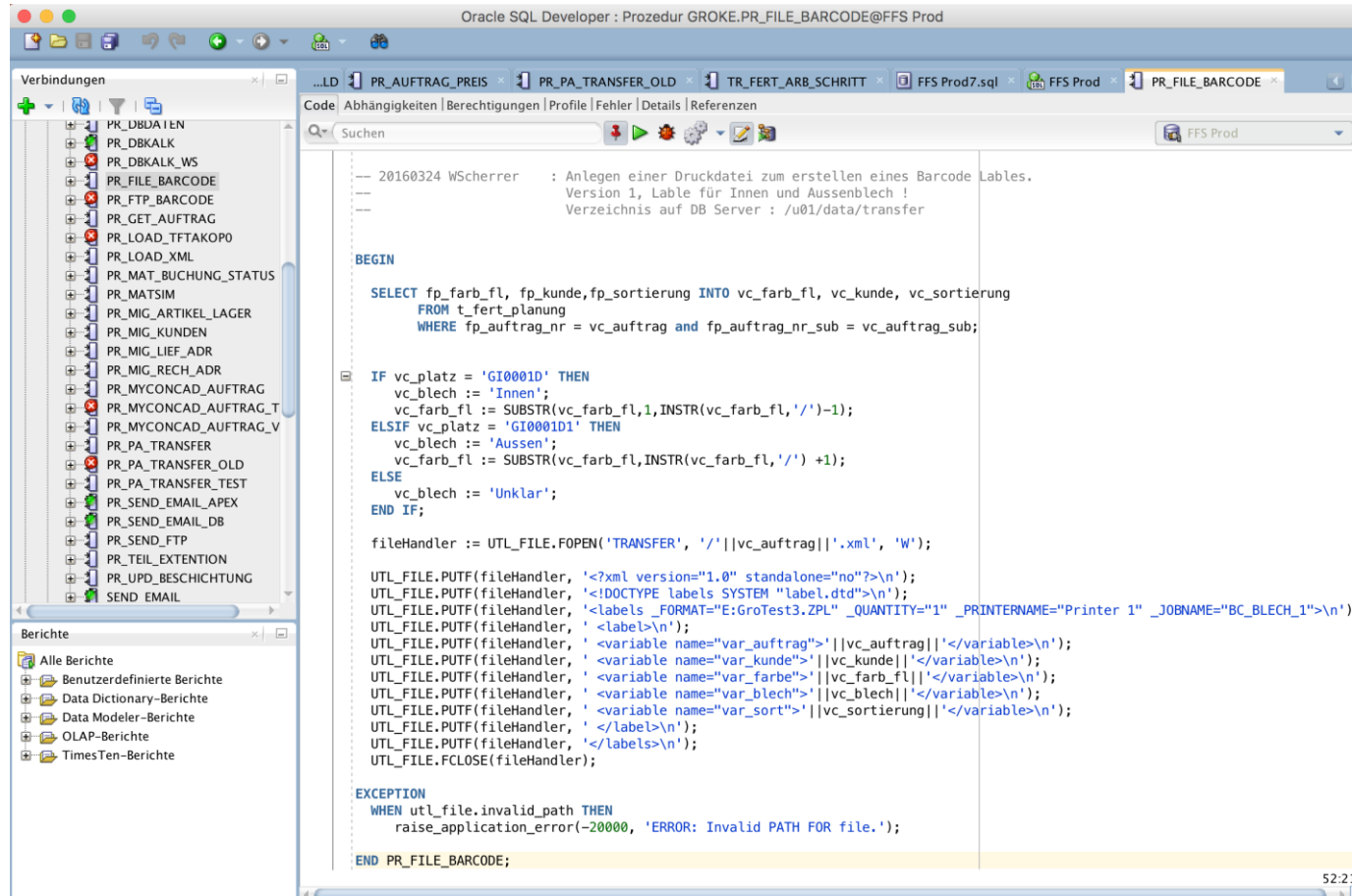# Create variable Label Objects

Create variable Label Objects

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Create variable Label Objects

Export label layout ile to network printer !

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Export label layout file to network printer !

PLSQL procedure -> create XML file with label content

Label XML conten file

```xml
<?xml version="1.0" standalone="no"?>
<!DOCTYPE labels SYSTEM "label.dtd">
<labels _FORMAT="E:GroTest3.ZPL" _QUANTITY="1" _PRINTERNAME="Printer 1" _JOBNAME="
BC_BLECH_1">
 <label>
 <variable name="var_auftrag">GF304829</variable>
 <variable name="var_kunde">METAKU (30-1)</variable>
 <variable name="var_farbe">F9007/F9007</variable>
 <variable name="var_blech">Unklar</variable>
 <variable name="var_sort">8401</variable>
 </label>
</labels>
~
~
~
~
~
~
```

Perl, batch job source -> Send file to printer !

```perl
#!/usr/bin/perl

use strict;
use warnings;
use Net::FTP;

use constant HOSTNAME => '10.17.200.113';
use constant USERNAME => 'admin';
use constant PASSWORD => 'zebra';

my $dir = '/u01/data/transfer';

opendir(DIR, $dir) or die $!;

while (my $file = readdir(DIR)) {

# We only want files
next unless (-f "$dir/$file");

# Use a regular expression to find files ending in .txt
next unless ($file =~ m/\.xml$/);

print "Barcode drucken : $file\n";

my $host = Net::FTP->new(HOSTNAME)
    or die "Cannot connect to ", HOSTNAME, ": $!\n";
```

Conclusion

- Questions ?
- Comments ?