Software integration with

Tring fiscal devices

CONTENT

1. PREREQUISITES FOR INSTALLATION

OS: Windows 98 and higher

Windows installer 3.1 or higher

.NET framework 2.0

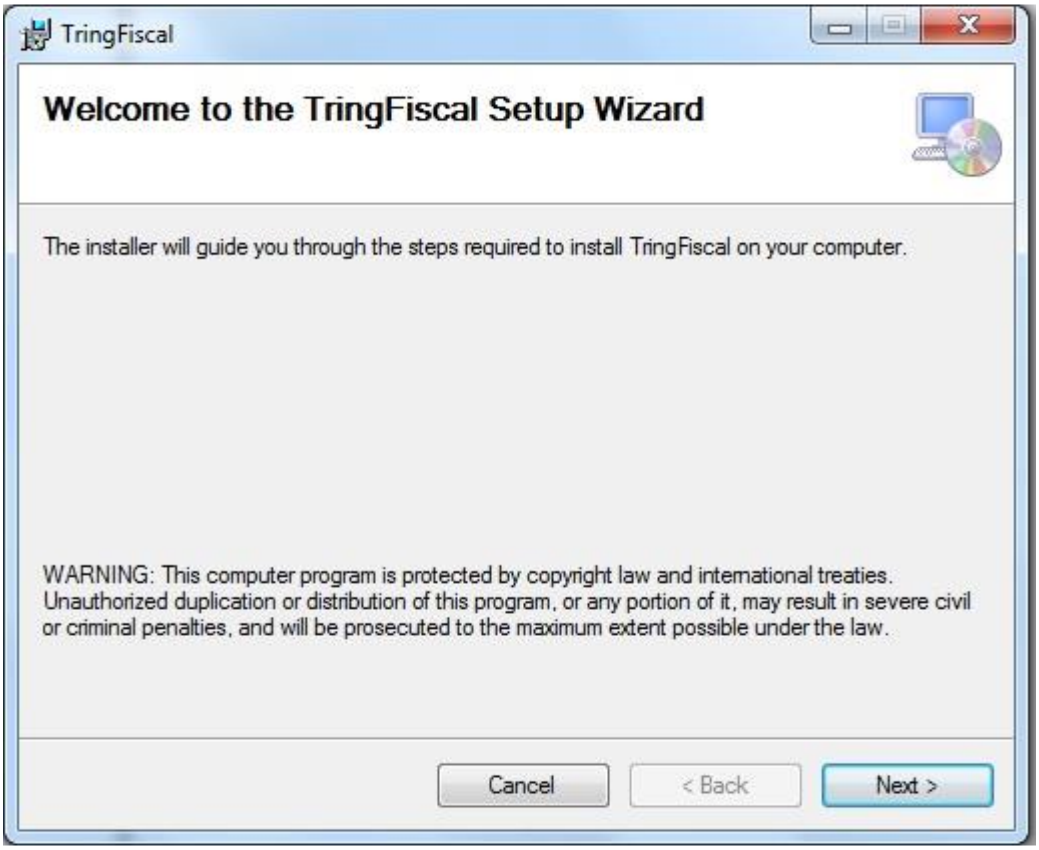
Hardware: Minimum PIII 1GHz, 256MB RAM, 20GB HDD

2. INSTALLATION

IMPORTANT !!! :

Please uninstall older versions like: CTP1, CPT2 or v1.

1. Run „setup.exe“

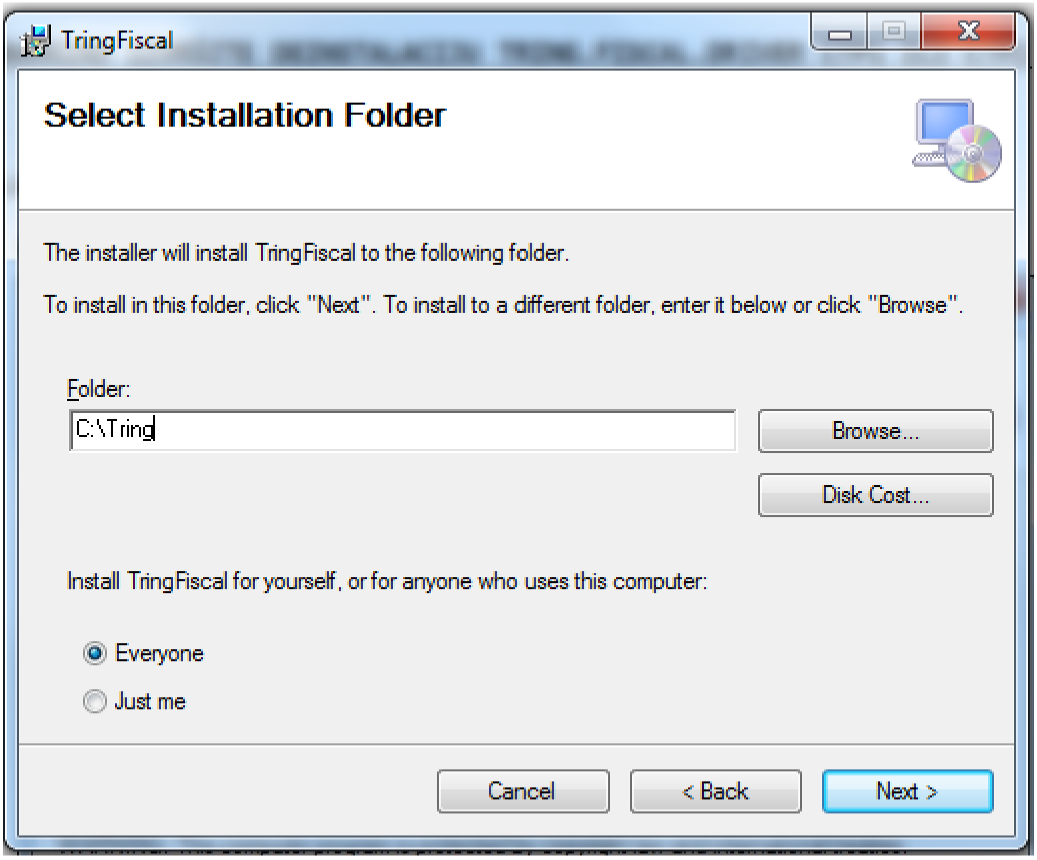


Welcome to the TringFiscal Setup Wizard

The installer will guide you through the steps required to install TringFiscal on your computer.

WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.

2. Click on „Next“



TringFiscal

Select Installation Folder

The installer will install TringFiscal to the following folder.

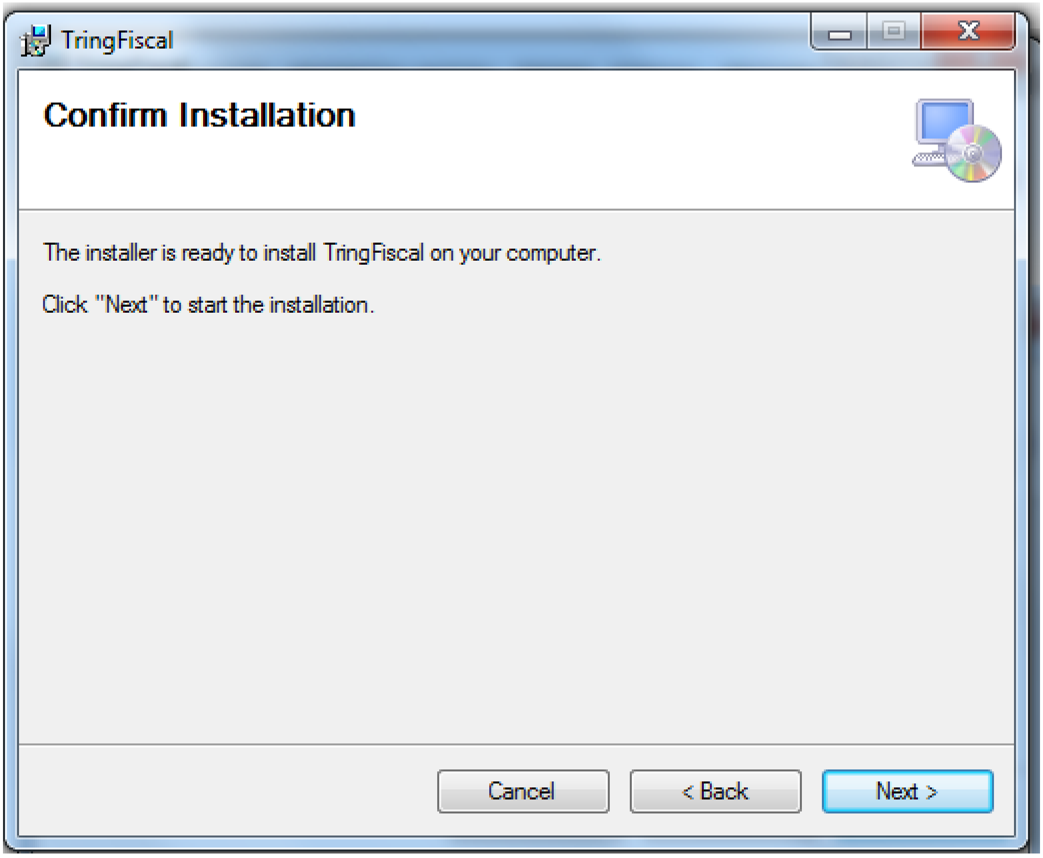
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".

Folder: C:\Tring

Install TringFiscal for yourself, or for anyone who uses this computer:

● Everyone
○ Just me

3. Choose path to install Tring.Fiscal („x:\tring“ is recommended)



TringFiscal

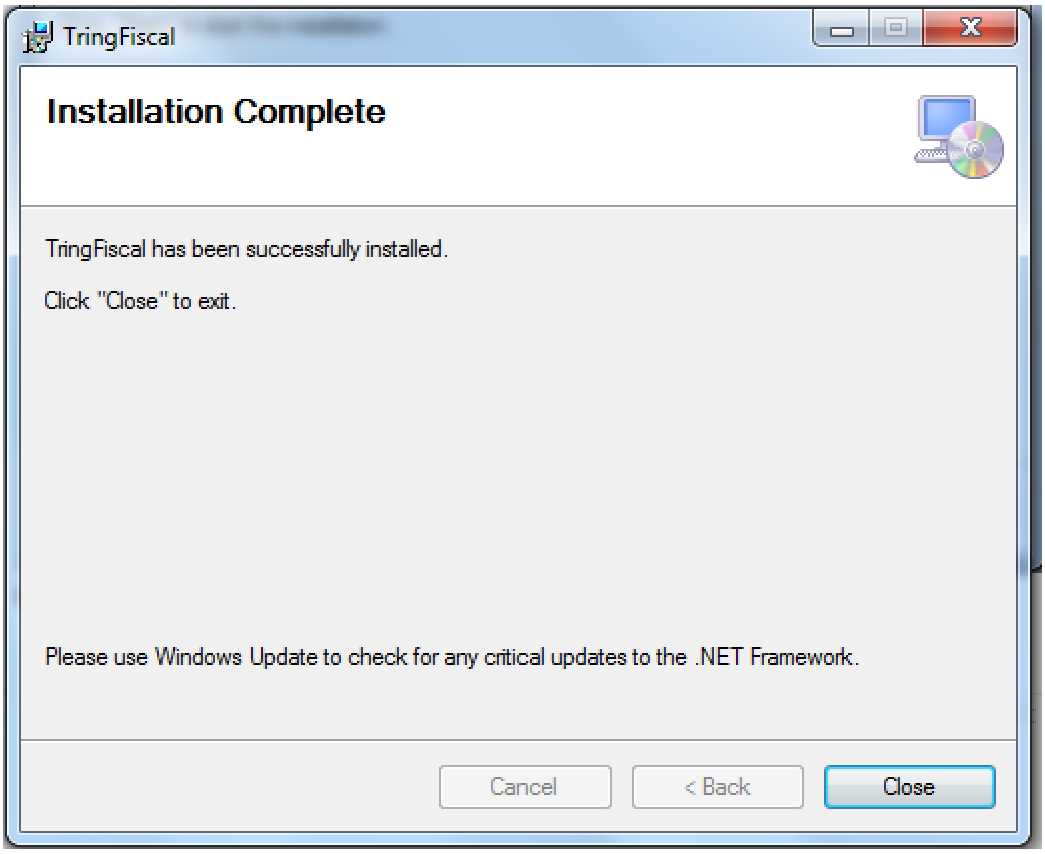
Confirm Installation

The installer is ready to install TringFiscal on your computer.

Click "Next" to start the installation.

4. Click on „Next“

5. Wait until finished and click „Close“.



Installation Complete

TringFiscal has been successfully installed.

Click "Close" to exit.

Please use Windows Update to check for any critical updates to the .NET Framework.

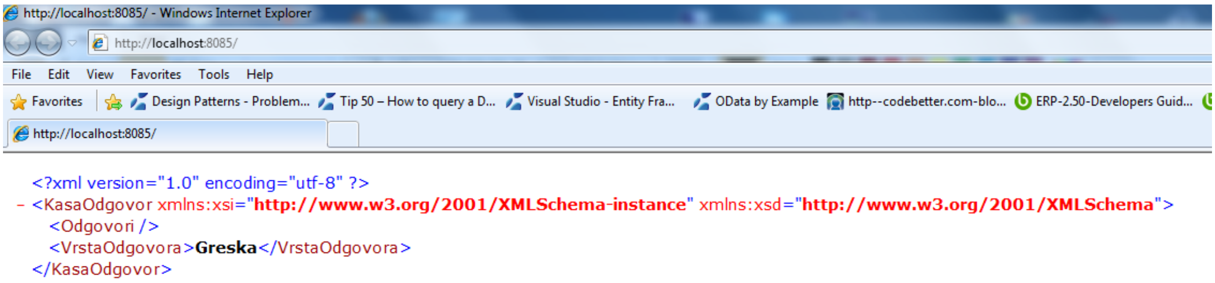
3. FIRST RUN AND TESTING

Tring.Fiscal consists of the following:

a) Tring.Fiscal.Server.exe
b) Tring.Fiscal.Driver.dll
c) Tring.Fiscal.POS.exe

Tring.Fiscal.Server is as base application which is used for receiving commands from other applications and it forwards it to Tring fiscal printer.
Tring.Fiscal is implemented as a windows application which starts with Windows automatically.
Tring.Fiscal.Server is „Hybrid“ http server which accepts XML commands, transforms them into corresponding format and sends it to execution to Tring.Fiscal printer.
To check Tring.Fiscal.Server, type in some of web browsers you have installed (IE, Firefox) local network address of the PC where Tring.Fiscal is installed with its port.
Example: Default is: **http://localhost:8085/**
Browser will return an XML file for successful access to the server or it will not be any in case of an error.

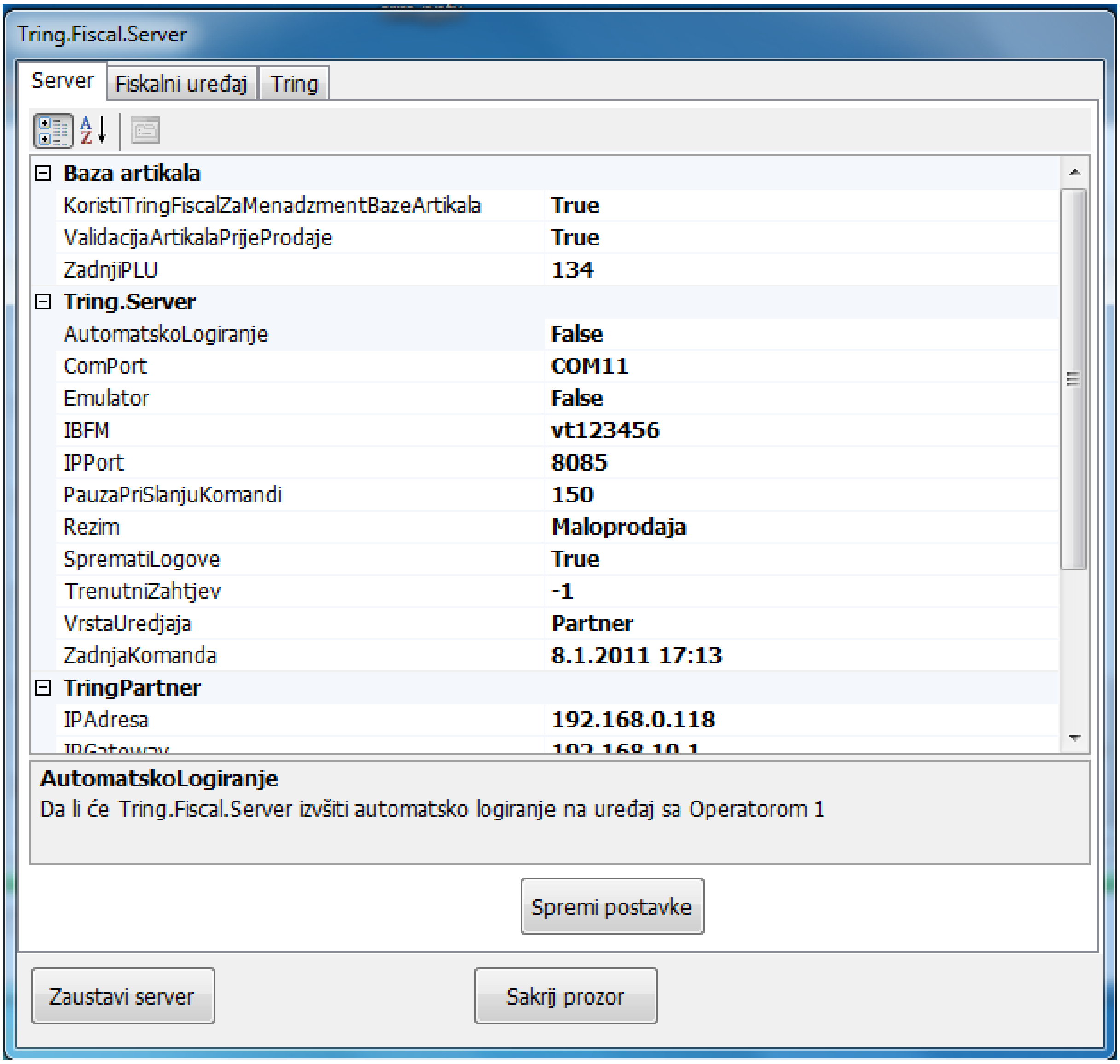
Picture 1. Successfully installed and started Tring.Fiscal.Server


http://localhost:8085/ - Windows Internet Explorer
http://localhost:8085/
File Edit View Favorites Tools Help
Favorites
Design Patterns - Problem...
Tip 50 – How to query a D...
Visual Studio - Entity Fra...
OData by Example
http--codebetter.com-blo...
ERP-2.50-Developers Guid...
http://localhost:8085/

```
  <?xml version="1.0" encoding="utf-8" ?>
- <KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <Odgovori />
    <VrstaOdgovora>Greska</VrstaOdgovora>
  </KasaOdgovor>
```

4. SETTING UP TRING.FISCAL SERVER

At application startup there will be a window, as on picture below, which have three tabs: „server“, „fiskalni uređaj“ (fiscal device) i Tring.



⊟ **Baza artikala**	
KoristiTringFiscalZaMenadzmentBazeArtikala	True
ValidacjaArtikalaPrijeProdaje	True
ZadnjiPLU	134
⊟ **Tring.Server**	
AutomatskoLogiranje	False
ComPort	COM11
Emulator	False
IBFM	vt123456
IPPort	8085
PauzaPriSlanjuKomandi	150
Rezim	Maloprodaja
SpremaiLogove	True
TrenutniZahtjev	-1
VrstaUredjaja	Partner
ZadnjaKomanda	8.1.2011 17:13
⊟ **TringPartner**	
IPAdresa	192.168.0.118
IPGateway	192.168.10.1

AutomatskoLogiranje
Da li će Tring.Fiscal.Server izvšiti automatsko logiranje na uređaj sa Operatorom 1

In „Server“ tab Tring.Fiscal will show current server settings.

Server settings can be changed directly on table „Server“ (picture above). On left side of the table (left column) gives a list of all possible settings, while right side (right column) is for view and changing the settings.

IMPORTNAT !!! Changes can be made only when all values of settings were changed then button „Spremi izmjene“ has to be pressed to keep the changes „NECESSARILY“! Some settings require Tring.Fiscal.Server to be reset to apply settings. To reset Tring.Fiscal.Server it necessary to press „Zaustavi server“ then „Pokreni server“

Deteiled list and description of all settings is in the following table:

SETTING	DESCRIPTION	POSSIBLE VALUES
KoristiTringFiscalZaMenadzmentBazeArtikala (UseTringFiscalForCommodityDatabaseManagement)	Will Tring.Fiscal take care of database on fiscal device. This setting is relates to folowing commands: **Stampatifiskalniracun (PrintFiscalReceipt) i stampatireklamiraniracun (PrintReclaimedReceipt).** If value is = **True**, then driver will, in case when commodity does not exist in database on fiscal device or there has been changes on Name, unit or tax rate in forbidden period, automatically add new commodity in database on device. If there was a change of Name, Unit, or Tax rate in allowed period or price change in forbidden period, then driver will change these values on fiscal device. If value is = **False,** Then driver will return „Greška“ (error). User will have to synchronize database between fiscal device and own database by himself.	True False
ValidacijaArtikalaPrijeProdaje (ValidateCommoditiesBeforeSale)	Will Tring.Fiscal.Server validate recipt item before sending it to execution. This setting relates to commands: **Stampatifiskalniracun (PrintFiscalReceipt) i stampatireklamiraniracun (PrintReclaimedReceipt).** If value is = **True**, then driver will check receipt items from command: a) Are values of price, quantities, and discounts are valid format and in allowed limits. b) Is Name, unit, and Tax rate and price are the same as on the fiscal device database.	True False

	If value is = **False,** User will have to take care about data validating.	
ZadnjiPLU (LastPLU)	Number of (PLU) that was last written to database in fiscal device. This option is for faster checking of new commodities in fiscal device database. It is not needed to enter any values in this field except first start of the device. **We recommend to set this value to „-1“ on first start. This way Tring.Fiscal will synchronize database on device with local repository for faster command executing. This synchronization will be executed on first command execution and could take quite long so you do not have to turn of fiscal device.**	Number: 1-16000 for TringFavourite Plus 1-60000 for TringPartner
AutomatskoLogiranje (AutomaticLogin)	Will Tring.Fiscal.Server going to login automatically with user-1. If value is = **True,** then Tring.Fiscal.Server will login every 60 seconds on fiscal device. This setting is required with Tring.Favourte Plus device because if at device startup, in 60 seconds device does not recieve command from PC it exits fiscal printer mode. If value is = **False** then Tring.Fiscal.Server will not login automatically.	True False
ComPort	Serial port on PC where fiscal device is connected. This setting is related to Tring.Favourite Plus.	List of all serial (COM) ports on PC.
Emulator	Will Tring.Fiscal.Server send commands to fiscal device or it will run in „Emulated mode“. **True** – will work as emulator. Will not send commands to fiscal device. **False** – will send commands to device (normal mode)	True False
IBFM	Identification number of fiscal module. This number can be found in Service manual. First two characters are latters, rest (6) are numbers (always). AB – TringFavourite Plus AC – TringPartner	AB000010-AB500000 AC000010-AC500000
IPport	Port that will listen for connections. Take care of FIREWALL. It should allow this port. Default value is: 8085	8085
PauzaPriSlanjuKomandi (PauseBetweenCommands)	Time pause in milliseconds while sending commands on serial communication – Tring.Facourite Plus. Default value is 100. We don't recommend setting this value lower than 10. Rising this value rises the time of command execution (stampatifiskalniracun i stampatireklamiraniracun, citajartikle).	From 10 to 500
Rezim	Advanced setting for possibility of implementation function to work with wholesale ad retail prices.	Maloprodaja Veleprodaja
SprematiLogove (Save logs)	**True** – All commands and replies will be saved in file called „log.txt“ in folder where Tring.Fiscal is installed.	True False

TrenutniZahtjev (CurrentRequest)	Internal counter. Please don't set any values.	-1
VrstaUredjaja (DeviceType)	Defines device which is directly connected to PC where Tring.Fiscal.Server is installed. Allowed values are: **Favourite** **Partner** **Mobika**	**Favourite** **Partner** **Mobika**
ZadnjaKomanda (LastCommand)	Date and time of last command execution. Please don't set any values.	
IPAdresa (IPAddress)	Defines IP address of fiscal device (Tring.Partner), in case when fiscal device communicates with PC via TCP/IP protocol. Take care of FIREWALL. It should not block this address. Fiscal device and PC should be on same subnet. **IMPORTANT !!!** Default IP address of TringPartnera is **192.168.10.20**	192.168.10.20
IPGateway	Default gateway for TringPartner if there is in the network. Default value is: 192.168.10.1	192.168.10.1
IPMask	Subnet mask (Tring.Partner) Default is: 255.255.255.0	255.255.255.0
BrisatiNeuspjesneDatoteke (EraseFailedFiles)	Will Tring.Fical erase XML files that are not executed.	True False
Encoding	Defult character encoding for executing XML files.	List of all encodings in drop down list.
XMLPutanja	Path which server will scan for XML commands. Replies from server are found in subdirectory „\odgovori“ in that directory.	C:\tring\xml
XMLTimer	Time of scanning directory in seconds. If it is set to 0 then the scanning is off.	From 0 to 10

5. CONNECTING TRING.FISCAL DEVICE AND COMMUNICATION TESTING

After installation, setup, and running Tring.Fiscal.Server application it is needed to connect Tring.Fiscal Device with PC:

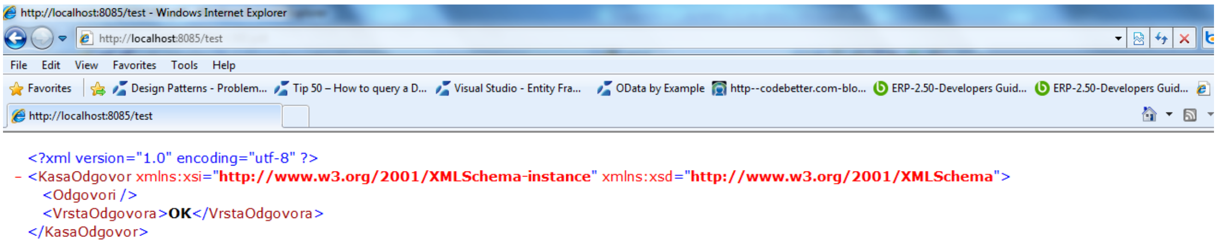
a) TringFavourite Plus – use the original communication cable supplied with the device. **It is recommended to connect Tring.Favourite Plus to a computer via a USB-serial adapter.**
Turn on the devices. Confirm date, if asked. Choose Menu „Registracija“, and confirm with ZBIR. Type in the password (default 1 for operator number 1). Confirm with ZBIR. On the screen should be shown "0.00". Press, one after another, next keys: SMN, PRN, NP. After this keyboard should be blocked. In this way the device is in the fiscal printer mode. In the old program memory of the devices, it is needed to send the command "initialization" in 60 seconds after entering the mode of fiscal printer or cash register will automatically come out of the fiscal printer mode.
With the new program memory is not necessary to send any command. There is also the option of automatic entry into the mode of fiscal printer immediately after turning on the device, but this option must turned on by the authorized service.

If, after giving the command, the device comes out of the fiscal printer („NEMA KONTAKTA!“ (Eng. NO CONTACT!)), then the problem is with the misspelled IOSA. IOSA can be changed by authorized personnel only.

b) TringPartner – uses standard UTP (network) cable for communication with device. This device has only implemented Ethernet (network) communication. The default IP address of the device is: 192.168.10.20. IP address can be changed as described in the user instructions that can be downloaded from the website: http://www.kase.ba

IMPORTANT !!! **Check of the correct settings of Tring.Fiscal.Servera and Tring.Fiscal device we can check by type in the following address in Web browser:**

http://localhost:8085/test


http://localhost:8085/test - Windows Internet Explorer
http://localhost:8085/test
File
Edit
View
Favorites
Tools
Help
Favorites
Design Patterns - Problem...
Tip 50 – How to query a D...
Visual Studio - Entity Fra...
OData by Example
http--codebetter.com-blo...
ERP-2.50-Developers Guid...
ERP-2.50-Developers Guid...
http://localhost:8085/test

```
  <?xml version="1.0" encoding="utf-8" ?>
- <KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <Odgovori />
    <VrstaOdgovora>OK</VrstaOdgovora>
  </KasaOdgovor>
```

The device should print the text from the non-fiscal data on the fiscal mode and the number of IBFM.

In web browser should show the message like on the picture above.

Now fiscal device is ready to work.

6. WAYS TO INTEGRATE PARTNERS SOLUTIONS

There are four ways to send commands for execution to the server:

1) Thru object and functions in Tring.Fiscal.Driver.dll for .NET framework based technologies.
2) Thru object and functions in „COM“ TringFiscalDriver.tlb for technologies that supports „COM“ (VB5-6, Delphi, VisualFox Pro)
3) Sending XML commands directly to server via HTTP POST method (.NET, Java, Delphi,...)
4) Sending XML files to execute in specified directory which is „scanned“ by Tring.Fiscal.Server.

In first three methods, reply from server is get from functions, while fourth method, reply is saved to a file in specified directory.

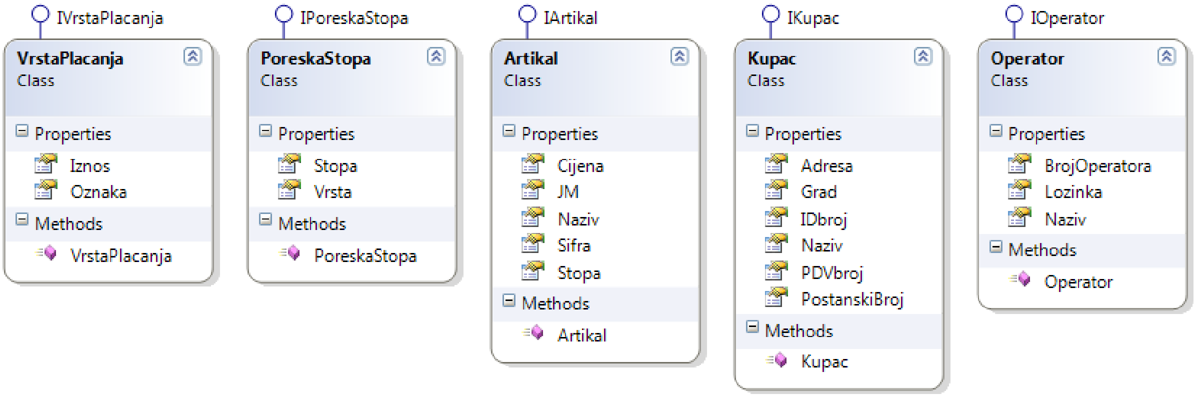
6.1. Using objects and functions in Tring.Fiscal.Driver

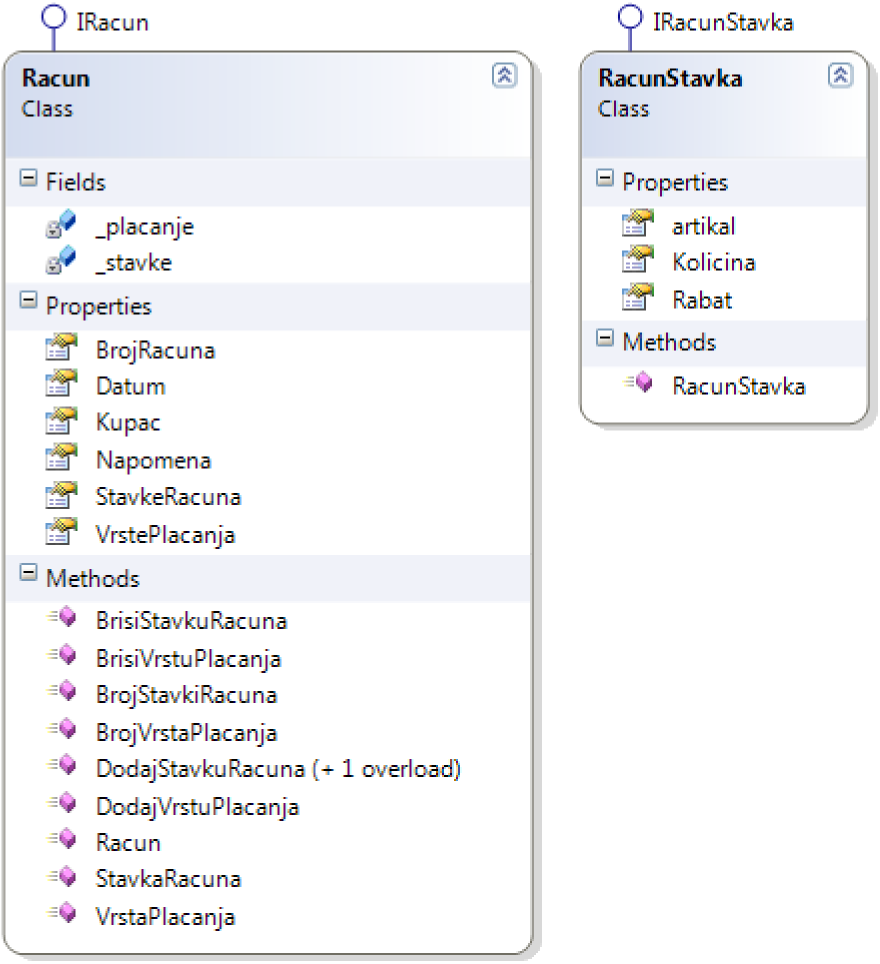
Tring.Fiscal.Driver.dll is implemented as standard .NET library of objects and functions.

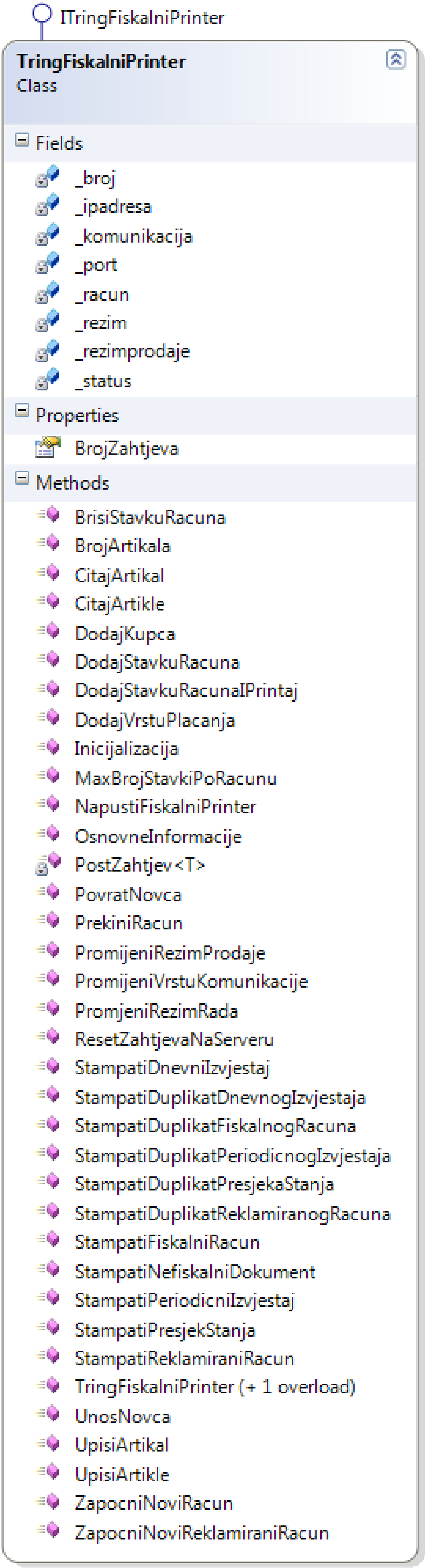
This library is possible to use in this ways:

a) As a .dll for .NET based projects (C#, VB .NET, Java .NET, F#)
b) As a COM object for projects done in Visual Basic 6, Delphi 7+, Visual Fox Pro 6+ and rest of the tools which supports this tehnology.

Below are diagrams of some classes from library Tring.Fiscal.Driver.







ITringFiskalniPrinter

TringFiskalniPrinter
Class

Fields

- _broj
- _ipadresa
- _komunikacija
- _port
- _racun
- _rezim
- _rezimprodaje
- _status

Properties

- BrojZahtjeva

Methods

- BrisiStavkuRacuna
- BrojArtikala
- CitajArtikal
- CitajArtikle
- DodajKupca
- DodajStavkuRacuna
- DodajStavkuRacunaIPrintaj
- DodajVrstuPlacanja
- Inicijalizacija
- MaxBrojStavkiPoRacunu
- NapustiFiskalniPrinter
- OsnovneInformacije
- PostZahtjev<T>
- PovratNovca
- PrekiniRacun
- PromijeniRezimProdaje
- PromijeniVrstuKomunikacije
- PromjeniRezimRada
- ResetZahtjevaNaServeru
- StampatiDnevniIzvjestaj
- StampatiDuplikatDnevnogIzvjestaja
- StampatiDuplikatFiskalnogRacuna
- StampatiDuplikatPeriodicnogIzvjestaja
- StampatiDuplikatPresjekaStanja
- StampatiDuplikatReklamiranogRacuna
- StampatiFiskalniRacun
- StampatiNefiskalniDokument
- StampatiPeriodicniIzvjestaj
- StampatiPresjekStanja
- StampatiReklamiraniRacun
- TringFiskalniPrinter (+ 1 overload)
- UnosNovca
- UpisiArtikal
- UpisiArtikle
- ZapocniNoviRacun
- ZapocniNoviReklamiraniRacun

6.1.1. MICROSOFT .NET FRAMEWORK BASED PROJECTS

For using objects and functions in Tring.Fiscal.Driver in .NET framework environment it is needed to import this library into the project.

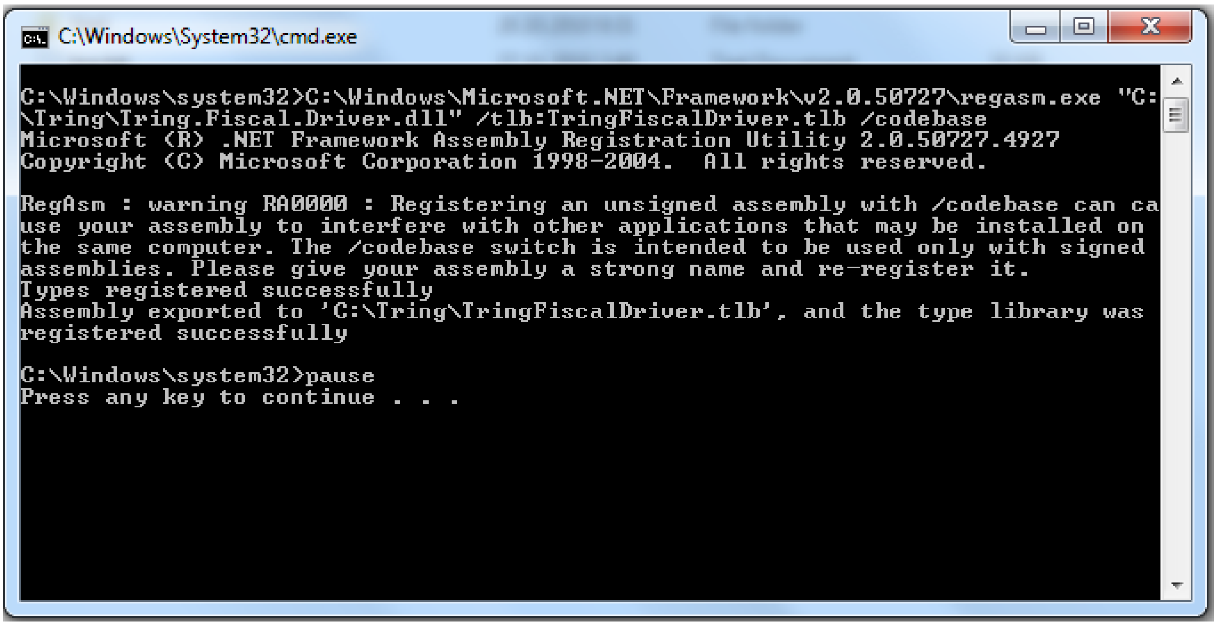
Examples of implementation are given in file cs_primjeri.zip. It could be found in directory „PRIMJERI".

6.1.2. „COM" BASED PROJECTS (Visual Basic, Delphi, Visual Fox Pro, ...)

To use functions and objects from Tring.Fiscal.Driver.dll library it is necessary to generate file TringFiscalDriver.tlb, which can be imported into the project.

To register file TringFiscalDriver.tlb it is necessary to do next:

1. Open directory where file „RegisterTFD.bat" (in folder where Tring.Fiscal is installed).
2. Right click on „RegisterTFD"
3. Chose option: „Open" or „Otvori" on Windows XP; or „Run as Administrator" or „Pokreni kao Administrator" on Windows Vista or Windows 7.
4. In case of successful of registration in same directory will be file TringFiscalTDriver.tbl and you will get next window:



```
C:\Windows\system32>C:\Windows\Microsoft.NET\Framework\v2.0.50727\regasm.exe "C:
\Tring\Tring.Fiscal.Driver.dll" /tlb:TringFiscalDriver.tlb /codebase
Microsoft (R) .NET Framework Assembly Registration Utility 2.0.50727.4927
Copyright (C) Microsoft Corporation 1998-2004.  All rights reserved.

RegAsm : warning RA0000 : Registering an unsigned assembly with /codebase can ca
use your assembly to interfere with other applications that may be installed on
the same computer. The /codebase switch is intended to be used only with signed
assemblies. Please give your assembly a strong name and re-register it.
Types registered successfully
Assembly exported to 'C:\Tring\TringFiscalDriver.tlb', and the type library was
registered successfully

C:\Windows\system32>pause
Press any key to continue . . .
```

As example of implementing this way of communication is given a project in VB6 in file: vb_primjer.

6.1.3. DIRECT XML SENDING METHOD VIA „HTTP-POST" METHOD

This method can use all technologies which have standard HTTP POST possibility. This method could be implemented thru sending „RAW" data via TCP/IP protocol. The requirement is that data have to be sent in the structure required by the HTTP protocol. The header must specify the method parameters such as the command address and data type, while the "body" must contain the appropriate XML content.

Example. Address of Command: http://localhost:8085/inicijalizacija

Type of data: "text / xml"

Below are examples of implementation of this method in Java.

```
try
{
    String requestXML = "<?xml version="1.0" encoding="utf-8"?><Operator
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><BrojOperatora>0</BrojOpera
tora><Lozinka>0</Lozinka></Operator>";
    URL url = new URL( "http://localhost:8085/inicijalizacija" );
    URLConnection con = url.openConnection();
    con.setDoInput(true);
    con.setDoOutput(true);
    con.setUseCaches (false);
    con.setDefaultUseCaches (false);
    con.setRequestProperty ( "Content-Type", "text/xml" );
    OutputStreamWriter writer = new OutputStreamWriter(
con.getOutputStream() );
    writer.write( requestXml );
    writer.flush();
    writer.close();
    // reading the response
    InputStreamReader reader = new InputStreamReader(
con.getInputStream() );
    StringBuilder buf = new StringBuilder();
    char[] cbuf = new char[ 2048 ];
    int num;
    while ( -1 != (num=reader.read( cbuf )))
    {
        buf.append( cbuf, 0, num );
    }
    String result = buf.toString();
    System.err.println( "\nResponse from server after POST:\n" + result
);
}
catch( Throwable t )
{    t.printStackTrace( System.out );
}
```

6.1.4. COPYING XML FILES IN COMMAND DIRECTORY

To be able to execute Tring.Fiscal.Server XML commands it is necessary to configure the following settings:

1. Setup base path where you want to send XML files. Default path is „C:\Tring\XML“
2. Setup interval of scanning directory in **seconds** by Tring.Fiscal.Server. If interval is = 0 then XML scanning is **OFF.**

6.1.4.1. HOW TO FORMAT NAME OF XML FILE

Names of XML files should be formed in this way:
COMMAND_NAME.REQUEST_NUMBER
Example, If file is receipt printing file then format of the file name is:
stampatifiskalniracun.1045
where:
stampatifiskalniracun – Command for printing fical receipt
„.“ = period, separation mark
1045 – receipt number or request number

Example, If „Cash In“ request is needed then format of the file name would be:
unosnovca.99687
where:
unosnovca – Command for „Cash In“ into the fiscal device
„.“ = period, separation mark
99687– Request number or random number

REPLIES TO XML COMMANDS FROM TRING.FISCAL.SERVER
All replies are given in XML type file, same name as the command, just in subdirectory „/odgovori“
So for example on command:
Stampatifiskalniracun.1045
Which is placed in „C:\tring\xml“, server will send reply with same name of the file: **Stampatifiskalniracun.1045 in directory „C:\tring\xml\odgovori“.**

Examples of commands and their respective XSD shemas are given in directory: „/xml/primjeri“.

7. GIVING COMMANDS TO TRING FISCAL DEVICES AND EXAMPLES

7.1. Login to device - Initialization

IMPORTANT !!! Initialization is REQUIRED first command while turning on the fiscal device. This command should be sent while user is logging in software application.

This command is important in Tring.Favourite Plus as described on on page 10.

Example: C#

```
bool init = printer.Inicijalizacija("localhost", 8085, 0, "0");
where:
         localhost – network name or PC IP address on which
Tring.Fiscal.Server is installed.
         8085 – port where Tring.Fiscal.Server expects to recieve commands.

         0 – operator code, in this case it is administrator.We recommend to
use this opetator because only this operator could change or add commodities.
         „0“ – Operator password 1.
```

Example: VB

```
Dim init as Boolean
init = printer.Inicijalizacija("localhost", 8085, 0, "0");
```

Exapmle XML File

Command file name: inicijalizacija.xml or init.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<Operator xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojOperatora>0</BrojOperatora>
  <Lozinka>0</Lozinka>
</Operator>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori>
    <Odgovor>
      <Naziv />
      <Vrijednost xsi:type="xsd:int">200</Vrijednost>
    </Odgovor>
  </Odgovori>
  <VrstaOdgovora>OK</VrstaOdgovora>
</KasaOdgovor>
```

7.2. Working with commodity database – UpisiArtikal , UpisiArtikle, CitajArtikal, CitajArtikle

Tring.Fiscal devices own operative memory that can store 16.000 commodities with TringFavourite Plus, and 60.000 commodities with TringPartnera. For every commodity is saved: Name (Including unit of measure), price and tax group. Operative memory is organized in a way that it is possible to address every commodity.
PLU- represents memory address-pointer, on which is saved certain commodity. PLU is with TringFavourite Plus from 1 to 16000, with TringPartner is 1-60.000. Part of operative memory where commodity database is saved if realized as „Flash“ memory, for erase preventing even in case of battery supply power loss. This memory has warranted writing cycles life, so it is not implemented reset of whole database. It is only possible to change commodity on certain memory location – PLU.

Tring.Fiscal.Server has local repository (database) in which are saved data about database on the fiscal device. Synchronization of local repository with database on the device is done automatically executing commands of writing or changing commodities, or setting the „ZadnjiPLU“ = -1, in Tring.Fiscal.Server settings.

Relevant settings of Tring.Fiscal.Server are:
KoristiTringFiscalZaMenadzmentBazeArtikala i ValidacijaArtikalaPrijeProdaje.
Explanation of these settings is given in Section 4.

Class Artikal (commodity) have next properties:

PLU – Memory address where commodity is saved in fiscal device. Number from 1-16000 for TringFavourite Plus and 1-60000 for TringPartner. If this property is not sent with commodity, then Tring.Fiscal will find where this commodity is in database on fiscal device.

Sifra – commodity code from software application. It could be Number or number and characters value up to 50 characters. Commodity code can be same as PLU.

Naziv – Commodity name. Together with unit of measure, it could be up to 36 characters in Tring.Favourite Plus and 32 characters in Tring.Partner. Delimiter between commodity name and unit of measure is „/“ (slash). Tring.Fiscal automatically forms the name and unit of measure by described algorithm.

JM – Unit of measure of commodity. Maximum 2 characters. Tring.Fiscal automatically forms name and unit of measure of commodity on described algorithm.

Stopa – Tax group of commodity.
Allowed values for users who are taxpayers are: E and K, where E – main group (17%), K-group for commodities released from paying PDV (0%).
Allowed values for users which are not in „PDV“ system are: A, where A – group (0%) for users which are not in „PDV“ system.

Cijena – Commodity price. Allowed range is: 0.01 do 9 999 999.99 (7+2). Tring.Fiscal will automatically validate these values during writing commodity and sale.

IMPORTANT!!! It is forbidden to change name, unit of measure, and tax group of commodity on certain PLU in forbidden period. If options „KoristiTringFiscalZaMenadzmentBazeArtikala i ValidacijaArtikalaPrijeProdaje“, Tring.Fiscal will, during change of name, unit of measure or tax group of commodity in forbidden period, automatically add same commodity with new PLU.

7.2.1. UpisiArtikal (WriteCommodity)

C#

```
Artikal art = new Artikal();
art.PLU = 0; //let Tring.Fiscal find commodity or put it on new location.
Options: ValidacijaArtikalaPrijeProdaje i
KoristiTringFiscalZaMenadzmentBazeArtikala must be st to true.
art.Sifra = „15‟ //just numbers
art.Naziv = „Test commodity 15‟;
art.JM = „pc‟;
art.Cijena = 2.88;
art.Stopa = VrstePoreskihStopa.E_Opca_poreska_stopa_PDV;

//Add to printer
odgovor = printer.UpisiArtikal(art);
if (odgovor.VrstaOdgovora == VrsteOdgovora.OK)
{
      Debug.WriteLine(art.Naziv + ":OK");
}
```

Visual Basic 6

XML Commands

Name of the command file: upisiartikal.xml or ua.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<RacunZahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>592489</BrojZahtjeva>
  <VrstaZahtjeva>105</VrstaZahtjeva>
  <NoviObjekat>
    <Sifra>21</Sifra>
    <Naziv>New commodity</Naziv>
    <JM>pc</JM>
    <Cijena>59</Cijena>
    <Stopa>E</Stopa>
    <Grupa>0</Grupa>
    <PLU>0</PLU>
  </NoviObjekat>
</RacunZahtjev>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori />
  <VrstaOdgovora>OK</VrstaOdgovora>
  <BrojZahtjeva>553325325</BrojZahtjeva>
</KasaOdgovor>
```

7.2.2. *UpisiArtikle (WriteCommodities)*

C#

```
ArtikalList listaArtikala = new ArtikalList();

Artikal art = new Artikal();
art.PLU = 0; //let Tring.Fiscal find commodity or put it on new location.
Options: ValidacijaArtikalaPrijeProdaje i
KoristiTringFiscalZaMenadzmentBazeArtikala must be st to true.
art.Sifra = "15";
art.Naziv = "Test commodity 15";
art.JM = "pc";
art.Cijena = 2.88;
art.Stopa = VrstePoreskihStopa.E_Opca_poreska_stopa_PDV;
listaArtikala.Dodaj(art);

Artikal art2 = new Artikal();
art2.PLU = 0; //let Tring.Fiscal find commodity or put it on new location.
Options: ValidacijaArtikalaPrijeProdaje i
KoristiTringFiscalZaMenadzmentBazeArtikala must be st to true.
art2.Sifra = "20";
art2.Naziv = "Test commodity 20";
art2.JM = "pc";
art2.Cijena = 12.88;
art2.Stopa =
VrstePoreskihStopa.K_Poreska_stopa_PDV_za_artikle_oslobodjene_PDV;
listaArtikala.Dodaj(art2);

//Add to printer
odgovor = printer.UpisiArtikle(listaArtikala);
if (odgovor.VrstaOdgovora == VrsteOdgovora.OK)
{
    Debug.WriteLine("OK");
}
```

Visual Basic 6

XML Commands

Command file name: upisiartikle.xml or uae.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<RacunZahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>0</BrojZahtjeva>
  <VrstaZahtjeva>0</VrstaZahtjeva>
  <NoviObjekat>
    <Artikli>
      <Artikal>
        <Sifra>21</Sifra>
        <Naziv>New commodity</Naziv>
        <JM>pc</JM>
        <Cijena>59</Cijena>
        <Stopa>E</Stopa>
        <Grupa>0</Grupa>
        <PLU>0</PLU>
      </Artikal>
      <Artikal>
        <Sifra>22</Sifra>
        <Naziv>This is commodity 22</Naziv>
        <JM>pc</JM>
        <Cijena>2399</Cijena>
        <Stopa>K</Stopa>
        <Grupa>0</Grupa>
        <PLU>0</PLU>
      </Artikal>
    </Artikli>
  </NoviObjekat>
</RacunZahtjev>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori />
  <VrstaOdgovora>Greska</VrstaOdgovora>
</KasaOdgovor>
```

7.2.3. CitajArtikal (ReadCommodity)

C#

```
Artikal art = printer.CitajArtikal(1);
```

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XML Commands

Command file name: citajartikal.xml or ca.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?><double>1</double>
```

Reply Example:
```
<?xml version="1.0" encoding="utf-8"?>
<Artikal xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Sifra>1</Sifra>
  <Naziv>First commodity</Naziv>
  <JM>pc</JM>
  <Cijena>2.22</Cijena>
  <Stopa>E</Stopa>
  <Grupa>0</Grupa>
  <PLU>1</PLU>
</Artikal>
```

7.2.4. CitajArtikle(ReadCommodities)

C#

```
ArtikalList art = printer.CitajArtikle(1,10);
```

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XML Commodities

Command file name: citajartikle.xml or cae.xml

Command example:
```
<?xml version="1.0" encoding="utf-8"?>
<ArrayOfDouble xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <double>1</double>
  <double>10</double>
</ArrayOfDouble>
```

Reply example:
```
<?xml version="1.0" encoding="utf-8"?>
<ListaArtikala xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Artikli>
    <Artikal>
      <Sifra>1</Sifra>
      <Naziv>First commodity</Naziv>
      <JM>pc</JM>
      <Cijena>2.22</Cijena>
      <Stopa>E</Stopa>
      <Grupa>0</Grupa>
      <PLU>0</PLU>
    </Artikal>
    <Artikal>
      <Sifra>2</Sifra>
      <Naziv>My commodity</Naziv>
      <JM>lb</JM>
      <Cijena>10.33</Cijena>
      <Stopa>E</Stopa>
      <Grupa>0</Grupa>
      <PLU>0</PLU>
    </Artikal>
    <Artikal>
      <Sifra>3</Sifra>
      <Naziv>Some commodity</Naziv>
      <JM>pc</JM>
      <Cijena>3.33</Cijena>
      <Stopa>E</Stopa>
      <Grupa>0</Grupa>
      <PLU>0</PLU>
    </Artikal>
    <Artikal>
      <Sifra>4</Sifra>
      <Naziv>New commodity 4</Naziv>
      <JM>pc</JM>
      <Cijena>0.99</Cijena>
      <Stopa>E</Stopa>
      <Grupa>0</Grupa>
      <PLU>0</PLU>
    </Artikal>
    <Artikal>
      <Sifra>5</Sifra>
      <Naziv>Deleted 22</Naziv>
      <JM>hh</JM>
      <Cijena>22</Cijena>
      <Stopa>E</Stopa>
      <Grupa>0</Grupa>
      <PLU>0</PLU>
    </Artikal>
    <Artikal>
      <Sifra>6</Sifra>
      <Naziv>Totaly new</Naziv>
      <JM>kk</JM>
      <Cijena>66.33</Cijena>
      <Stopa>E</Stopa>
      <Grupa>0</Grupa>
      <PLU>0</PLU>
    </Artikal>
    <Artikal>
      <Sifra>7</Sifra>
      <Naziv>Commodity 7</Naziv>
      <JM>jm</JM>
      <Cijena>3.69</Cijena>
      <Stopa>E</Stopa>
      <Grupa>0</Grupa>
      <PLU>0</PLU>
    </Artikal>
    <Artikal>
      <Sifra>8</Sifra>
      <Naziv>NESQUIK</Naziv>
      <JM />
      <Cijena>3.24</Cijena>
      <Stopa>E</Stopa>
      <Grupa>0</Grupa>
      <PLU>0</PLU>
    </Artikal>
    <Artikal>
      <Sifra>9</Sifra>
      <Naziv>Commodity 9</Naziv>
      <JM />
      <Cijena>258</Cijena>
      <Stopa>K</Stopa>
      <Grupa>0</Grupa>
      <PLU>0</PLU>
    </Artikal>
    <Artikal>
      <Sifra>10</Sifra>
      <Naziv>nihad</Naziv>
      <JM>ko</JM>
      <Cijena>2.55</Cijena>
      <Stopa>K</Stopa>
      <Grupa>0</Grupa>
      <PLU>0</PLU>
    </Artikal>
  </Artikli>
</ListaArtikala>
```

7.3. Sales – StampatiFiskalniRacun

IMPORTANT !! During fiscal receipt printing command execution there are next rules:

Operator must be logged in over „inicijalizacija“ command.

a) Commodities must be saved into fiscal device database before command execution if options „KoristiTringFiscalZaMenadzmentBazeArtikala“ i „ValidacijaArtikalaPrijeProdaje“ set to „**false**“.
b) Maximum number of items per receipt in TringFavourite Plus is 95 and in TringPartner is 500.
c) Commodity quantity that is sold must be in range from 0.01 to 999 999.999
d) Discaount must be in range from 0 to 99.99 (%). If discount is negative number that will enlarge amount for that percentage of discount.
e) Customers do not have to be saved to database before because of existance of electronic journal. It is allowed to only define properties of the class „Kupac“ on receipt and reclaimed receipt.
f) If receipt is made for end customer then class „Kupac“ could be omited completely from command. Driver will automatically omit customer when wrong „JIB“ is entered (JIB is customers 13 number identification number).
g) Allowed payment methods of the receipts are: Gotovina (Cash), Cek (Check), Kartica (Card) i Virman (Transfer order).
h) It is possible to pay a receipt with more payment methods. Example. If receipt amount is 100KM then part could be played: Gotovina(Cash)-20KM, 30KM Cek(Check), 40KM Virman(Transfer order), 10KM Kartica (Card).
i) If amount of payment method = 0, then complete rest of the amount or comlete amount of the receipt pays with then payment method. Example. Receipt amount is 100KM:

   ```
   _printer.DodajVrstuPlacanja(VrstePlacanja.Gotovina,10)
   _printer.DodajVrstuPlacanja(VrstePlacanja.Cek,0)
   _printer.DodajVrstuPlacanja(VrstePlacanja.Virman,10)
   ```

   Tring.Fiscal will ignore payment method „Virman“, because part of the receipt – 10 KM is paid with „Gotovina“, and the rest – 90 with „Cek“.
j) If payment method is not defined thru the command, then default payment method is „Gotovina“ (Cash).
k) Paid amount with „Cek“ (Check) and „Kartice“ (Card) could not be greater than receipt amount.
l) If paid amount is greater than receipt amount, then on the receipt will be shown „POVRAT“ (refund) for that difference (kusur - change). Refund is only possible in „Gotovina“ (Cash).

m) If there is an error during printing items of receipt, whole receipt would be canceled.

Properties of the class „**Kupac**“:

IDBroj – Unique identification number of the customer – 13 numbers
PDVBroj – PDV number of the customer (12 numbers) – not mandatory
Naziv – customer name, up to 32 characters
Adresa – customers address, up to 32 characters
PostanskiBroj – Post office number (PO Box) – 5 numbers
Grad – City of place of the customer: on TringFavourite Plus – 12 characters, on TringPartner – 26 characters
On TringFavourite Plus, Tring.Fiscal will in case if address bigger than 16 characters and name is less than 16 characters, will take 32 characters for address and contrary.

During printing, TringPartner uses fast printing 17 by 17 receipt items. If receipt has over 100 items, then it will print buffered by 100 items.

If printer is „stuck“ during printing receipt,„PrekiniRacun“ command should be used.

7.3.1. Štampanje fiskalnog računa bez kupca (Printig fiscal receipt without customer)

```
C#
KasaOdgovor odgovor = new KasaOdgovor();
            OleDbConnection con = new
OleDbConnection(@"Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=..\..\..\..\..\VB6\pos.mdb");
            OleDbCommand command = new OleDbCommand("select * from
KOMITENTI where JIB=1234567890123", con); //customer on the receipt

            OleDbDataReader dr;
            try
            {
                //open connection
                con.Open();

                //new receipt
                Racun _racun = new Racun();
                //in case if this is reclaimed receipt here goes the number
of fiscal receipt that is reclaimed
                _racun.BrojRacuna = "1";


                //Loading items
                command.CommandText = "SELECT RACUNI_STAVKE.BrojStavke,
RACUNI_STAVKE.BrojRacuna, RACUNI_STAVKE.Artikal, RACUNI_STAVKE.Kolicina,
RACUNI_STAVKE.Cijena, RACUNI_STAVKE.Rabat, ARTIKLI.Naziv, ARTIKLI.JM,
ARTIKLI.StopaPDV " +
                                    "FROM RACUNI_STAVKE INNER JOIN ARTIKLI
ON RACUNI_STAVKE.Artikal = ARTIKLI.Sifra " +
                                    " where RACUNI_STAVKE.BrojRacuna=1";
                dr = command.ExecuteReader();

                while (dr.Read())
                {
                    RacunStavka _stavka = new RacunStavka();
                    //commodity
                    Artikal art = new Artikal();
                    art.Sifra = dr.GetValue(2).ToString();
                    art.Naziv = dr.GetString(6);
                    art.JM = dr.GetString(7);
                    art.Stopa = (VrstePoreskihStopa)dr.GetInt16(8);
                    art.Cijena = (double)dr.GetValue(4);
                    _stavka.artikal = art;
                    _stavka.Kolicina = (double)dr.GetValue(3);
                    _stavka.Rabat = (double)dr.GetValue(5);

                    _racun.DodajStavkuRacuna(_stavka);

                }
                dr.Close();
                //enter payment method
                //when amount is 0 then whole amount goes to that payment
method
                //according the Law, it has to be enabled to pay one
receipt with more payment methods.
                //
                _racun.DodajVrstuPlacanja(VrstePlacanja.Virman, 0);

                //add to printer
                if (fiskalniracun)
                {
                    odgovor = printer.StampatiFiskalniRacun(_racun);
                }
                else {
                    odgovor = printer.StampatiReklamiraniRacun(_racun);
                }

                if (odgovor.VrstaOdgovora == VrsteOdgovora.OK)
                {
                    Debug.WriteLine("OK");
                    for (int i = 0; i < odgovor.Odgovori.Count; i++)
                    {
                        Debug.WriteLine
(String.Format("{0}:{1}",odgovor.Odgovori[i].Naziv,odgovor.Odgovori[i].Vrij
ednost.ToString()));
                        //if (odgovor.Odgovori[i].Naziv ==
"BrojFiskalnogRacuna")
                        //{
                        //    //
                        //}
                    }
                }

                con.Close();


            }
            catch (Exception ex)
            {

                MessageBox.Show(ex.Message);
```

```
}
```

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XML Commands

Command file name: stampatifiskalniracun.xml or sfr.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<RacunZahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>233</BrojZahtjeva>
  <VrstaZahtjeva>0</VrstaZahtjeva>
  <NoviObjekat>
    <StavkeRacuna>
      <RacunStavka>
        <artikal>
          <Sifra>2</Sifra>
          <Naziv>My commodity</Naziv>
          <JM>pc</JM>
          <Cijena>10.33</Cijena>
          <Stopa>E</Stopa>
          <Grupa>0</Grupa>
          <PLU>2</PLU>
        </artikal>
        <Kolicina>1</Kolicina>
        <Rabat>0</Rabat>
      </RacunStavka>
    </StavkeRacuna>
    <VrstePlacanja>
      <VrstaPlacanja>
        <Oznaka>Gotovina</Oznaka>
        <Iznos>0</Iznos>
      </VrstaPlacanja>
    </VrstePlacanja>
    <Napomena>Thank you for visiting us!!!</Napomena>
    <BrojRacuna>0</BrojRacuna>
  </NoviObjekat>
</RacunZahtjev>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori>
    <Odgovor>
      <Naziv>OK</Naziv>
      <Vrijednost xsi:type="xsd:string" />
    </Odgovor>
    <Odgovor>
      <Naziv>BrojFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:long">35</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>DatumFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:string">9.1.11</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>VrijemeFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:string">13:20</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>IznosFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:int">0</Vrijednost>
    </Odgovor>
  </Odgovori>
  <VrstaOdgovora>OK</VrstaOdgovora>
  <BrojZahtjeva>0</BrojZahtjeva>
</KasaOdgovor>
```

7.3.2. Štampanje fiskalnog računa sa kupcem (Printing fiscal receipt with customer)

C#

```
KasaOdgovor odgovor = new KasaOdgovor();
            OleDbConnection con = new
OleDbConnection(@"Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=..\..\..\..\..\VB6\pos.mdb");
            OleDbCommand command = new OleDbCommand("select * from
KOMITENTI where JIB=1234567890123", con); //Customer on the receipt

            OleDbDataReader dr;
            try
            {
                //open connection
                con.Open();

                //New receipt
                Racun _racun = new Racun();
                //in case if this is reclaimed receipt here goes the number
of fiscal receipt that is reclaimed
                _racun.BrojRacuna = "1";
                //add customer if exists
                Kupac kup = new Kupac();

                dr = command.ExecuteReader();
                while (dr.Read())
                {

                    kup.IDbroj = dr.GetDouble(0); //Only numbers
                    kup.Naziv = dr.GetString(1);
                    kup.Adresa = dr.GetString(2);
                    kup.PostanskiBroj = int.Parse(dr.GetString(3));
                    kup.Grad = dr.GetString(4);
                }
                dr.Close();
                //set the customer ont the receipt
                _racun.Kupac = kup;

                //Load items of the receipt
                command.CommandText = "SELECT RACUNI_STAVKE.BrojStavke,
RACUNI_STAVKE.BrojRacuna, RACUNI_STAVKE.Artikal, RACUNI_STAVKE.Kolicina,
RACUNI_STAVKE.Cijena, RACUNI_STAVKE.Rabat, ARTIKLI.Naziv, ARTIKLI.JM,
ARTIKLI.StopaPDV " +
                                    "FROM RACUNI_STAVKE INNER JOIN ARTIKLI
ON RACUNI_STAVKE.Artikal = ARTIKLI.Sifra " +
                                    " where RACUNI_STAVKE.BrojRacuna=1";
//
                dr = command.ExecuteReader();

                while (dr.Read())
                {
                    RacunStavka _stavka = new RacunStavka();
                    //commodity
                    Artikal art = new Artikal();
                    art.Sifra = dr.GetValue(2).ToString();
                    art.Naziv = dr.GetString(6);
                    art.JM = dr.GetString(7);
                    art.Stopa = (VrstePoreskihStopa)dr.GetInt16(8);
                    art.Cijena = (double)dr.GetValue(4);
                    _stavka.artikal = art;
                    _stavka.Kolicina = (double)dr.GetValue(3);
                    _stavka.Rabat = (double)dr.GetValue(5);

                    _racun.DodajStavkuRacuna(_stavka);

                }
                dr.Close();
                //enter payment method
                //when amount is 0 then whole amount goes to that payment
method
                //according the Law, it has to be enabled to pay one
receipt with more payment methods.
                //
                _racun.DodajVrstuPlacanja(VrstePlacanja.Virman, 0);

                //Add to printer
                if (fiskalniracun)
                {
                    odgovor = printer.StampatiFiskalniRacun(_racun);
                }
                else {
                    odgovor = printer.StampatiReklamiraniRacun(_racun);
                }

                if (odgovor.VrstaOdgovora == VrsteOdgovora.OK)
                {
                    Debug.WriteLine("OK");
                    for (int i = 0; i < odgovor.Odgovori.Count; i++)
                    {
                        Debug.WriteLine
(String.Format("{0}:{1}",odgovor.Odgovori[i].Naziv,odgovor.Odgovori[i].Vrij
ednost.ToString()));
                        //if (odgovor.Odgovori[i].Naziv ==
"BrojFiskalnogRacuna")
                        //{
                        //    //
                        //}
                    }
                }

                con.Close();


            }
            catch (Exception ex)
            {

                MessageBox.Show(ex.Message);

            }
```

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XML command

Command file name: stampatifiskalniracun.xml or sfr.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<RacunZahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>233</BrojZahtjeva>
  <VrstaZahtjeva>0</VrstaZahtjeva>
  <NoviObjekat>
    <Kupac>
      <IDbroj>1234567890123</IDbroj>
      <Naziv>Tring d.o.o. Informatički Inženj</Naziv>
      <Adresa>Mehmeda Vehbi ef. Šemsekadića bb</Adresa>
      <PostanskiBroj>75320</PostanskiBroj>
      <Grad>Gračanica</Grad>
    </Kupac>
    <StavkeRacuna>
      <RacunStavka>
        <artikal>
          <Sifra>2</Sifra>
          <Naziv>My commodity</Naziv>
          <JM>pc</JM>
          <Cijena>10.33</Cijena>
          <Stopa>E</Stopa>
          <Grupa>0</Grupa>
          <PLU>2</PLU>
        </artikal>
        <Kolicina>1</Kolicina>
        <Rabat>0</Rabat>
      </RacunStavka>
    </StavkeRacuna>
    <VrstePlacanja>
      <VrstaPlacanja>
        <Oznaka>Gotovina</Oznaka>
        <Iznos>0</Iznos>
      </VrstaPlacanja>
    </VrstePlacanja>
    <Napomena>Thank you for vising us!!!</Napomena>
    <BrojRacuna>233</BrojRacuna>
  </NoviObjekat>
</RacunZahtjev>
```

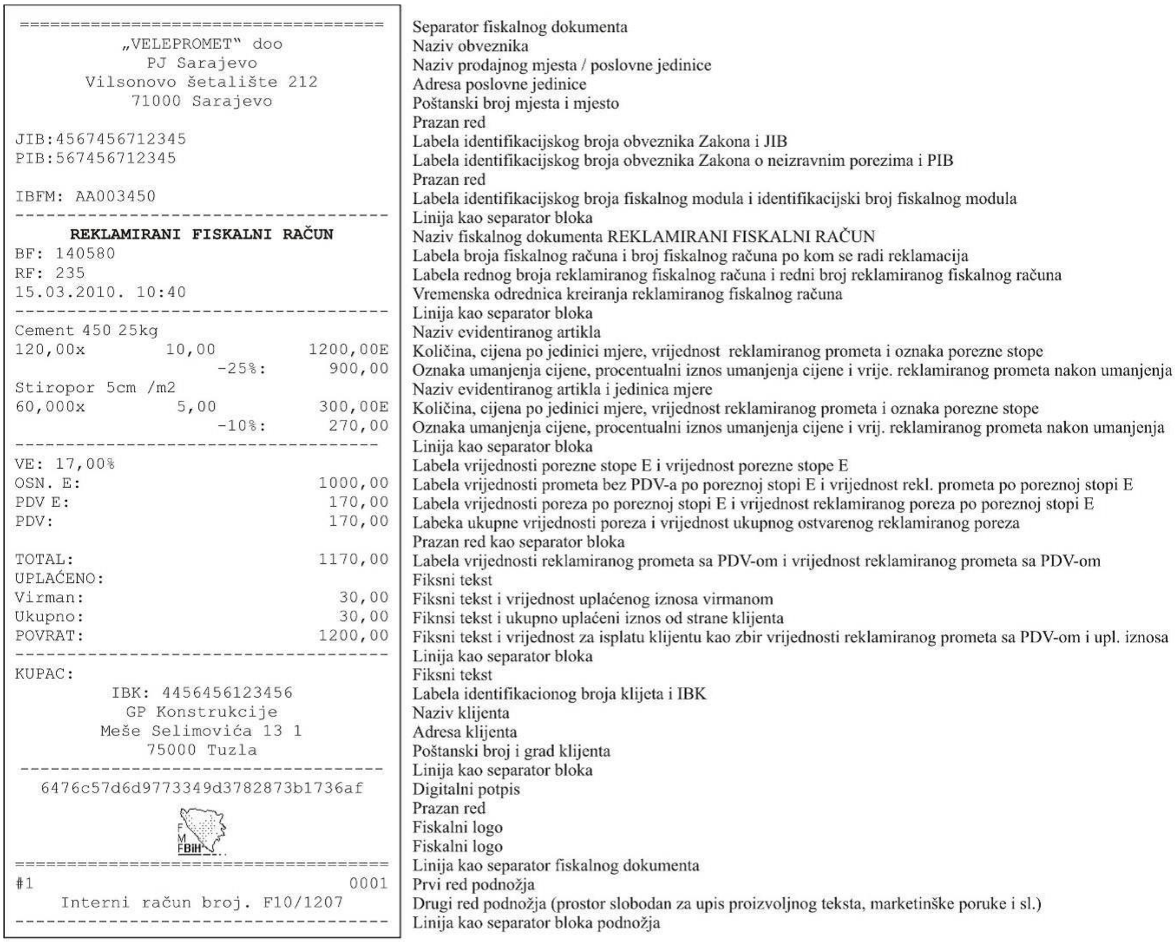
Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori>
    <Odgovor>
      <Naziv>OK</Naziv>
      <Vrijednost xsi:type="xsd:string" />
    </Odgovor>
    <Odgovor>
      <Naziv>BrojFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:long">36</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>DatumFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:string">9.1.11</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>VrijemeFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:string">13:29</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>IznosFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:int">0</Vrijednost>
    </Odgovor>
  </Odgovori>
  <VrstaOdgovora>OK</VrstaOdgovora>
  <BrojZahtjeva>233</BrojZahtjeva>
</KasaOdgovor>
```

7.4. Reclamation - StampatiReklamiraniRacun (Recalimed receipt)

IMPORTANT!!! During execution of the command of printing reclaimed receipt same rules applies as on fiscal receipt (see chapter 7.3), and new rules applies:

a) It is mandatory to set property „BrojRacuna“ to fiscal receipt number on which reclamation is related in command for printing reclaimed receipt.
b) It is necessary to have enough amount of Cash make reclaimed receipt. If for example amount of reclaimed receipt 100KM, then it is necessary to have at least 100KM in fiscal device.
c) Money return is only possible in „Gotovina“ (Cash) from reclaimed receipt.
d) **If in command is paymant methods (Vrste plaćanja), then it is treated as customers additional payment!**
   Example. If amount of reclaimed receipt is 100KM, and in command for printing reclaimed receipt „StampatiReklamiraniRacun“ exists payment methods, „Gotovina“ 10KM (Cash), Virman 10KM (Transfer order), then it implies that customer paid us 20 KM and we have to return him 100KM. More about this you can find in „Pravilnik o izgledu fiskalnih dokumenata“.



====================================	Separator fiskalnog dokumenta
„VELEPROMET" doo	Naziv obveznika
PJ Sarajevo	Naziv prodajnog mjesta / poslovne jedinice
Vilsonovo šetalište 212	Adresa poslovne jedinice
71000 Sarajevo	Poštanski broj mjesta i mjesto
	Prazan red
JIB:4567456712345	Labela identifikacijskog broja obveznika Zakona i JIB
PIB:567456712345	Labela identifikacijskog broja obveznika Zakona o neizravnim porezima i PIB
	Prazan red
IBFM: AA003450	Labela identifikacijskog broja fiskalnog modula i identifikacijski broj fiskalnog modula
------------------------------------	Linija kao separator bloka
REKLAMIRANI FISKALNI RAČUN	Naziv fiskalnog dokumenta REKLAMIRANI FISKALNI RAČUN
BF: 140580	Labela broja fiskalnog računa i broj fiskalnog računa po kom se radi reklamacija
RF: 235	Labela rednog broja reklamiranog fiskalnog računa i redni broj reklamiranog fiskalnog računa
15.03.2010. 10:40	Vremenska odrednica kreiranja reklamiranog fiskalnog računa
------------------------------------	Linija kao separator bloka
Cement 450 25kg	Naziv evidentiranog artikla
120,00x 10,00 1200,00E	Količina, cijena po jedinici mjere, vrijednost reklamiranog prometa i oznaka porezne stope
-25%: 900,00	Oznaka umanjenja cijene, procentualni iznos umanjenja cijene i vrije. reklamiranog prometa nakon umanjenja
Stiropor 5cm /m2	Naziv evidentiranog artikla i jedinica mjere
60,000x 5,00 300,00E	Količina, cijena po jedinici mjere, vrijednost reklamiranog prometa i oznaka porezne stope
-10%: 270,00	Oznaka umanjenja cijene, procentualni iznos umanjenja cijene i vrij. reklamiranog prometa nakon umanjenja
-----------------------------------	Linija kao separator bloka
VE: 17,00%	Labela vrijednosti porezne stope E i vrijednost porezne stope E
OSN. E: 1000,00	Labela vrijednosti prometa bez PDV-a po poreznoj stopi E i vrijednost rekl. prometa po poreznoj stopi E
PDV E: 170,00	Labela vrijednosti poreza po poreznoj stopi E i vrijednost reklamiranog poreza po poreznoj stopi E
PDV: 170,00	Labeka ukupne vrijednosti poreza i vrijednost ukupnog ostvarenog reklamiranog poreza
	Prazan red kao separator bloka
TOTAL: 1170,00	Labela vrijednosti reklamiranog prometa sa PDV-om i vrijednost reklamiranog prometa sa PDV-om
UPLAĆENO:	Fiksni tekst
Virman: 30,00	Fiksni tekst i vrijednost uplaćenog iznosa virmanom
Ukupno: 30,00	Fiknsi tekst i ukupno uplaćeni iznos od strane klijenta
POVRAT: 1200,00	Fiksni tekst i vrijednost za isplatu klijentu kao zbir vrijednosti reklamiranog prometa sa PDV-om i upl. iznosa
------------------------------------	Linija kao separator bloka
KUPAC:	Fiksni tekst
IBK: 4456456123456	Labela identifikacionog broja klijeta i IBK
GP Konstrukcije	Naziv klijenta
Meše Selimovića 13 1	Adresa klijenta
75000 Tuzla	Poštanski broj i grad klijenta
------------------------------------	Linija kao separator bloka
6476c57d6d9773349d3782873b1736af	Digitalni potpis
	Prazan red
F M FBiH	Fiskalni logo
	Fiskalni logo
====================================	Linija kao separator fiskalnog dokumenta
#1 0001	Prvi red podnožja
Interni račun broj. F10/1207	Drugi red podnožja (prostor slobodan za upis proizvoljnog teksta, marketinške poruke i sl.)
------------------------------------	Linija kao separator bloka podnožja

Problem above, you could solve in this way:
Say that customer xx day paid 100 KM. He comes after yy days to reclaim a receipt. It is necessary to execute command „UnosNovca", with cash 100KM. Make reclaimed receipt with cash return of 100KM.
additional payments are not implemented in TringFavourite Plus.

7.4.1. Štampanje reklamiranog računa bez kupca (Printing reclaimed receipt without a customer)

C#

```
                //new receipt
                Racun _racun = new Racun();
                //in case if this is reclaimed receipt here goes the number
of fiscal receipt that is reclaimed
                _racun.BrojRacuna = "1";
                ///...identical procedure as on fiscal receipt
                ///...
                ///....
                //print reclaimed receipt

                odgovor = printer.StampatiReklamiraniRacun(_racun);
```

Visual Basic 6

XML Commands

Command file name: StampatiReklamiraniRacun.xml or srr.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<RacunZahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>19</BrojZahtjeva>
  <VrstaZahtjeva>2</VrstaZahtjeva>
  <NoviObjekat>
    <StavkeRacuna>
      <RacunStavka>
        <artikal>
          <Sifra>2</Sifra>
          <Naziv>My commodity</Naziv>
          <JM>pc</JM>
          <Cijena>10.33</Cijena>
          <Stopa>E</Stopa>
          <Grupa>0</Grupa>
          <PLU>2</PLU>
        </artikal>
        <Kolicina>1</Kolicina>
        <Rabat>0</Rabat>
      </RacunStavka>
    </StavkeRacuna>
    <VrstePlacanja />
    <Napomena>Thank you for visiting us!!!</Napomena>
    <BrojRacuna>19</BrojRacuna><!—Number of the fiscal receipt that is being
reclaimed-->
  </NoviObjekat>
</RacunZahtjev>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori>
    <Odgovor>
      <Naziv>OK</Naziv>
      <Vrijednost xsi:type="xsd:string" />
    </Odgovor>
    <Odgovor>
      <Naziv>BrojFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:long">5</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>DatumFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:string">9.1.11</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>VrijemeFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:string">13:46</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>IznosFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:int">0</Vrijednost>
    </Odgovor>
  </Odgovori>
  <VrstaOdgovora>OK</VrstaOdgovora>
  <BrojZahtjeva>19</BrojZahtjeva>
</KasaOdgovor>
```

7.4.2. *Štampanje reklamiranog računa sa kupcem (Printinf reclaimed receipt with customer)*

C#

```
                //new receipt
                Racun _racun = new Racun();
                //in case if this is reclaimed receipt here goes the number
of fiscal receipt that is reclaimed
                _racun.BrojRacuna = "1";
                ///...identical procedure as in fiscal receipt
                ///...
                ///....
                //print reclaimed receipt

                odgovor = printer.StampatiReklamiraniRacun(_racun);
```

Visual Basic 6

XML Commands

Command file name: StampatiReklamiraniRacun.xml or srr.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<RacunZahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>20</BrojZahtjeva>
  <VrstaZahtjeva>2</VrstaZahtjeva>
  <NoviObjekat>
    <Kupac>
      <IDbroj>1234567890123</IDbroj>
      <Naziv>Tring d.o.o. Informatički Inženj</Naziv>
      <Adresa>Mehmeda Vehbi ef. Šemsekadića bb</Adresa>
      <PostanskiBroj>75320</PostanskiBroj>
      <Grad>Gračanica</Grad>
    </Kupac>
    <StavkeRacuna>
      <RacunStavka>
        <artikal>
          <Sifra>2</Sifra>
          <Naziv>My commodity</Naziv>
          <JM>pc</JM>
          <Cijena>10.33</Cijena>
          <Stopa>E</Stopa>
          <Grupa>0</Grupa>
          <PLU>2</PLU>
        </artikal>
        <Kolicina>1</Kolicina>
        <Rabat>0</Rabat>
      </RacunStavka>
    </StavkeRacuna>
    <VrstePlacanja />
    <Napomena>Thank you for visiting us!!!</Napomena>
    <BrojRacuna>20</BrojRacuna><!–Number of the fiscal receipt that is being
reclaimed-->
  </NoviObjekat>
</RacunZahtjev>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori>
```

```
    <Odgovor>
      <Naziv>OK</Naziv>
      <Vrijednost xsi:type="xsd:string" />
    </Odgovor>
    <Odgovor>
      <Naziv>BrojFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:long">4</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>DatumFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:string">9.1.11</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>VrijemeFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:string">13:46</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>IznosFiskalnogRacuna</Naziv>
      <Vrijednost xsi:type="xsd:int">0</Vrijednost>
    </Odgovor>
  </Odgovori>
  <VrstaOdgovora>OK</VrstaOdgovora>
  <BrojZahtjeva>20</BrojZahtjeva>
</KasaOdgovor>
```

7.5. Cash in, Cash out – UnosNovca, PovratNovca

Allowed ways of „cash in“ and „cash out“ are: „Gotovina“ (eng.Cash), „Cek“(eng.Check), „Kartica“ (eng.Card) i Virman(Eng. Transfer order). Take care of the names of payment methods because they are case sensitive!

7.5.1. UnosNovca (Cash In)

C#

```
odgovor = printer.UnosNovca(VrstePlacanja.Gotovina,100);
```

Visual Basic 6

XML Command

Command file name: unosnovca.xml or un.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<RacunZahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>0</BrojZahtjeva>
  <VrstaZahtjeva>7</VrstaZahtjeva>
  <NoviObjekat>
    <Oznaka>Gotovina</Oznaka>
    <Iznos>125.35</Iznos>
  </NoviObjekat>
</RacunZahtjev>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori />
  <VrstaOdgovora>OK</VrstaOdgovora>
  <BrojZahtjeva>553325325</BrojZahtjeva>
</KasaOdgovor>
```

7.5.2. PovratNovca (Cash Out)

C#

```
odgovor = printer.PovratNovca (VrstePlacanja.Gotovina,100);
```

Visual Basic 6

XML Commands

Command file name: povratnovca.xml or pn.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<RacunZahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>0</BrojZahtjeva>
  <VrstaZahtjeva>7</VrstaZahtjeva>
  <NoviObjekat>
    <Oznaka>Virman</Oznaka>
    <Iznos>120.33</Iznos>
  </NoviObjekat>
</RacunZahtjev>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori />
  <VrstaOdgovora>OK</VrstaOdgovora>
  <BrojZahtjeva>553325325</BrojZahtjeva>
</KasaOdgovor>
```

7.6. Reports – (StampatiPresjekStanja, StampatiDnevniIzvjestaj, StampatiPeriodicniIzvjestaj)

7.6.1. StampatiPresjekStanja (X-report)

Report „Presjek stanja“ or X-report, is report about current fiscal device state: total sales, total reclaimed, sales and reclaimed by tax groups, and money state in the register.
This report could be printed more than once a day.
This report does not closes the register!

C#

```
odgovor = printer.StampatiPresjekStanja();
```

Visual Basic 6

XML Commands

Command file name: StampatiPresjekStanja.xml or sps.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<Zahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>149678</BrojZahtjeva>
  <VrstaZahtjeva>3</VrstaZahtjeva>
  <Parametri />
</Zahtjev>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori />
  <VrstaOdgovora>Greska</VrstaOdgovora>
  <BrojZahtjeva>553325325</BrojZahtjeva>
</KasaOdgovor>
```

7.6.2. StampatiDnevniIzvjestaj (Z-report)

„Dnevni izvještaj“ or Z-report, is report about total state of the register between two Z-reports: total sales, total reclaimed, sales and reclaimed by tax groups.
This is mandatory report, which is usual printed on the ond of the day. It is possible to print this report more than once a day, but device limitations are 2000 Z-reports per one fiscal module and electronic journal.
This report „Closes“ the fiscal device (Sets sales and reclaimed and money to „= 0“).

C#

```
odgovor = printer.StampatiDnevniIzvjestaj();
```

Visual Basic 6

XML Command

Command file name: StampatiDnevniIzvjestaj.xml or sdi.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<Zahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>330176</BrojZahtjeva>
  <VrstaZahtjeva>4</VrstaZahtjeva>
  <Parametri />
</Zahtjev>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori />
  <VrstaOdgovora>OK</VrstaOdgovora>
  <BrojZahtjeva>553325325</BrojZahtjeva>
</KasaOdgovor>
```

7.6.3. StampatiPeriodicniIzvjestaj (Periodical report)

„Periodični izvještaj“ (Periodical report), is report of the register between two time intervals: total sales, total reclaimed, sales and reclaimed by tax groups.

This is a mandatory report that have to be printed on the end of the month and period is: first day of that month to last day of that month.

This report does not „closes“ the register!

C#

```
odgovor = printer.StampatiPeriodicniIzvjestaj(new DateTime(2010, 10,
10), new DateTime(2010, 10, 10));
```

Visual Basic 6

XML commands
Command file name: StampatiPeriodicniIzvjestaj.xml or spi.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<Zahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>129345</BrojZahtjeva>
  <VrstaZahtjeva>5</VrstaZahtjeva>
  <Parametri>
    <Parametar>
      <Naziv>odDatuma</Naziv>
      <Vrijednost>1.1.2011 14:59:58</Vrijednost>
    </Parametar>
    <Parametar>
      <Naziv>doDatuma</Naziv>
      <Vrijednost>9.1.2011 14:59:58</Vrijednost>
    </Parametar>
  </Parametri>
</Zahtjev>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori />
  <VrstaOdgovora>Greska</VrstaOdgovora>
  <BrojZahtjeva>553325325</BrojZahtjeva>
</KasaOdgovor>
```

7.7. Non-Fiscal text – StampatiNefiskalniTekst (Non fiscal text)

By the Law, it is possible to print any kind of non-fiscal text thru fiscal device. It is possible to print any kind of additional reports, commercial text, under next conditions:

a) It is not allowed to print any kind of logo in non-fiscal text, or any kind of object that is similar to „fiscal logo“.
b) It is not allowed more than 5 characters „-„ and „=“ in one line. From security reasons, Tring.Fiscal automatically replaces these characters with „ „.
c) Before start of printing non-fiscal text it has to be „POČETAK NEFISKALNOG TEKSTA“, and in the end „KRAJ NEFISKALNOG TEKSTA“.
d) Complete non-fiscal text has to be saved to electronic journal.

e) On TringFavourite Plus-a, start of the non-fiscal text „$$_“ i „$#_“ are reserved for non fiscal reports.

Tring.Fiscal during format of received command for printing non non-fiscal text, first splits text by „LineFeed“, (Byte =10), then sends line by line to printer.

Take care that number of characters in line for Tring.Favourite Plus = 18 and Tring.Partner = 32.

C#

```
odgovor = printer.StampatiNefiskalniDokument("Test document \n ok");
```

Visual Basic 6

XML Command

Command file name: StampatiNefiskalniDokument.xml or snd.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<Zahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>837650</BrojZahtjeva>
  <VrstaZahtjeva>6</VrstaZahtjeva>
  <Parametri>
    <Parametar>
      <Naziv>Text</Naziv>
      <Vrijednost>
        Test document
        ok
      </Vrijednost>
    </Parametar>
  </Parametri>
</Zahtjev>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori />
  <VrstaOdgovora>OK</VrstaOdgovora>
  <BrojZahtjeva>553325325</BrojZahtjeva>
</KasaOdgovor>
```

7.8. Printing duplicates of fiscal documents – StampatiDuplikatPresjekaStanja

It is possible to print only last fiscal document on fiscal device. Duplicate of a fiscal document is used when, from some reason is error in printig, (out of paper, paper is jammed, etc.).

C#

```
odgovor = printer.StampatiDuplikatPresjekaStanja ();
```

Visual Basic 6

XML Command

Command file name: Duplikat.xml or dup.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<Zahtjev xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BrojZahtjeva>941874</BrojZahtjeva>
  <VrstaZahtjeva>6</VrstaZahtjeva>
  <Parametri />
</Zahtjev>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori />
  <VrstaOdgovora>OK</VrstaOdgovora>
  <BrojZahtjeva>553325325</BrojZahtjeva>
</KasaOdgovor>
```

7.9. Other functions – OsnovneInformacije, UpisiNaDisplej, CitajDatumIVrijeme (Basic informations, WriteToDisplay, ReadDateTime)

7.9.1. OsnovneInformacije(Basic informations)

C#

```
odgovor = printer.OstaleInformacije ();
```

Visual Basic 6

XML Command

Command file name: OstaleInformacije.xml or oi.xml

Command example:

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

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori>
    <Odgovor>
      <Naziv>FactoryId</Naziv>
      <Vrijednost xsi:type="xsd:string" />
    </Odgovor>
    <Odgovor>
      <Naziv>FMSignature</Naziv>
      <Vrijednost xsi:type="xsd:string">vt</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>IBFM</Naziv>
      <Vrijednost xsi:type="xsd:string">123456</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>JIB</Naziv>
      <Vrijednost xsi:type="xsd:string">4444444444444</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>PIB</Naziv>
      <Vrijednost xsi:type="xsd:string">333333333333</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>InitTime</Naziv>
      <Vrijednost xsi:type="xsd:string"> 18:4</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>InitDate</Naziv>
      <Vrijednost xsi:type="xsd:string">06.01.2011</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>NumberOfDailyReports</Naziv>
      <Vrijednost xsi:type="xsd:unsignedInt">5</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>NumberOfTaxChanges</Naziv>
      <Vrijednost xsi:type="xsd:unsignedInt">3</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>NumberOfResets</Naziv>
      <Vrijednost xsi:type="xsd:unsignedInt">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>NumberOfServices</Naziv>
      <Vrijednost xsi:type="xsd:unsignedInt">2</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>Linija1</Naziv>
      <Vrijednost xsi:type="xsd:string">NAZIV OBVEZNIKA**м**тŽУ#-9*_Ч*0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>Linija2</Naziv>
      <Vrijednost xsi:type="xsd:string">NAZIV PROFAJNOG MJESTA* -*to*КИ</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>Linija3</Naziv>
      <Vrijednost xsi:type="xsd:string">ADRESA PRODAJNOG MJESTA*т**s**q</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>Linija4</Naziv>
      <Vrijednost xsi:type="xsd:string">POŠTANSKI BROJ MJESTA I MJESTO*</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>Linija5</Naziv>
      <Vrijednost xsi:type="xsd:string">**OLszE-5nn*гđџG6*Чпо****Њš!зцА</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_GotovinaUnos</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_CekUnos</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_KarticaUnos</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_VirmanUnos</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_GotovinaPovrat</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_CekPovrat</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_KarticaPovrat</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_VirmanPovrat</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_StanjeGotovine</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_StanjeCeka</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_StanjeKartice</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoPlaceno</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoReklamirano</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoKusur</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoKusurGotovine</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoPrometPorezA</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoPrometPorezE</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoPrometPorezK</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoPrometPoretJ</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoPrometPorezM</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoPorezA</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoPorezE</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoPorezK</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoPoretJ</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoPorezM</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_PrometPremaKupcima</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_ReklamiraniPrometPremaKupcima</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoRabat</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>_UkupnoReklamiraniRabat</Naziv>
      <Vrijednost xsi:type="xsd:double">0</Vrijednost>
    </Odgovor>
  </Odgovori>
  <VrstaOdgovora>OK</VrstaOdgovora>
</KasaOdgovor>
```

7.9.2. UpisiNaDisplej

This function in only available on TringPartner-u.

C#

```
odgovor = printer.UpisiNaDisplej(racunstavka);
```

Visual Basic 6

XML Command

Command file name: UpisiNaDisplej.xml or und.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<RacunStavka xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <artikal>
    <Sifra>6</Sifra>
    <Naziv>Sasvim novi</Naziv>
    <JM>kk</JM>
    <Cijena>66.33</Cijena>
    <Stopa>E</Stopa>
    <Grupa>0</Grupa>
    <PLU>6</PLU>
  </artikal>
  <Kolicina>1</Kolicina>
  <Rabat>0</Rabat>
</RacunStavka>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori />
  <VrstaOdgovora>OK</VrstaOdgovora>
  <BrojZahtjeva>553325325</BrojZahtjeva>
</KasaOdgovor>
```

7.9.3. CitajDatumIVrijeme

This function is only available on TringPartner-u.

C#

```
odgovor = printer.UpisiNaDisplej(racunstavka);
```

Visual Basic 6

XML Command

Command file name: `citajdatumivrijeme`.xml or cdv.xml

Command example:

```
<?xml version="1.0" encoding="utf-8"?>
<RacunStavka xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <artikal>
    <Sifra>6</Sifra>
    <Naziv>Sasvim novi</Naziv>
    <JM>kk</JM>
    <Cijena>66.33</Cijena>
    <Stopa>E</Stopa>
    <Grupa>0</Grupa>
    <PLU>6</PLU>
  </artikal>
  <Kolicina>1</Kolicina>
  <Rabat>0</Rabat>
</RacunStavka>
```

Reply example:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori />
  <VrstaOdgovora>OK</VrstaOdgovora>
  <BrojZahtjeva>553325325</BrojZahtjeva>
</KasaOdgovor>
```

8. DESCRIPTION OF POSIBLE ERRORS AND THEIR HANDLING

Tring.Fiscal always returns reply of type KasaOdgovor.
Below is example of file with error:

```
<?xml version="1.0" encoding="utf-8"?>
<KasaOdgovor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Odgovori>
    <Odgovor>
      <Naziv>Nedefiniran_Artikal</Naziv>
      <Vrijednost xsi:type="xsd:int">510</Vrijednost>
    </Odgovor>
    <Odgovor>
      <Naziv>Kolicina_cijena_0_Displej_u_kvaru_Placanje_0</Naziv>
      <Vrijednost xsi:type="xsd:int">512</Vrijednost>
    </Odgovor>
  </Odgovori>
  <VrstaOdgovora>Greska</VrstaOdgovora>
  <BrojZahtjeva>553325325</BrojZahtjeva>
</KasaOdgovor>
```

Below is a list of posible errors. Errors of Tring.Partner are from 400 do 699, while TringFavourite Plus is from 600 to 699:

```
            Nepoznata_greska=499,
            Veza_sa_printerom_u_prekidu=400,
            Operator_nije_logiran=401,
            Neispravno_vrijeme =410,
            Vrijeme_manje_od_vremena_fiskalizacije=411,
            Napravi_dnevni_izvjestaj=412,
            Greska_fiskalne_memorije=413,
            Uredjaj_je_vec_fiskaliziran=414,
            Porezna_grupa_ne_postoji=415,
            Nema_elektronskog_zurnala_Pogresan_parametar=416,
            Nema_servisnog_jumpera=417,
            Pogresno_vrijeme = 418,
            Vrijeme_manje_od_vremena_fiskalizacije_2 = 430,
            DST_vec_promijenjeno=431,
            Fiskalna_memorija_puna_porezi=440,
            Fiskalna_memorija_puna_izvjestaji = 441,
            Fiskalna_memorija_puna_reseti = 442,
            Porezne_stope_iste = 470,
            Operator_nije_logiran_2 = 655,
            Greska_Fiskalna_Memorija_Elektronski_Zurnal_Modem=500,
            Neispravno_vrijeme_2=501,
            Neispravno_Fiskalno_Vrijeme=502,
            Nema_papira=503,
            Visoka_Temperatura_Printera=504,
            Maximalan_Broj_Dnevnih_Izvjestaja=505,
            Maximalan_Broj_Reseta=506,
            Nepoznata_Greska=507,
            Neispravna_Komanda=508,
            Nedefinirana_Porezna_Grupa=509,
            Nedefiniran_Artikal=510,
            Maximalan_broj_artikala_dostignut=511,
            Kolicina_cijena_0_Displej_u_kvaru_Placanje_0=512,
            Prekoracenje_cijene_kolicine_placanja=513,
            Prekoracenje_u_dnevnom_totalu=514,
            Prekoracenje_u_prodaji_ili_placanju=515,
            Prekoracenje_stavki_racuna_ili_reklamacije=516,
            Prekoracenje_u_iznosu_reklamacije=517,

    Ne_postoji_artikal_za_reklamaciju_Problem_rabata_Greska_u_nefiskalnom_tekstu=518,
            Napravite_dnevni_izvjestaj_Skinite_servisni_jumper_IOSA_nije_uredu=519,
            Format_kolicine_nije_uredu_Maximalan_Broj_klijenata_u_RAM=520,
            Prekoracenje_iznosa_placanja=521,
            Pogresna_vrsta_placanja_Servis_u_toku_Nedozvoljeni_rezim=522,
            Placanja_karticom_ili_cekom_vece_od_iznosa_racuna=523,
            Ukupna_suma_placanja_veca_od_sume_racuna=524,
            Pogresna_komanda_za_trenutni_status=525,
            Pogresan_parametar=526,
            Problem_sa_terminalom_nema_odgovora=527,
            Elektronski_zurnal_nema_konekcije=528,
            Elektronski_zurnal_je_pun=529,
            Problem_sa_prodajom_ili_dodavanjem_novog_artikla=530,
            Elektronski_zurnal_prazan_ili_je_zamjenjen=531,
        Račun pun ! = 601,
        Prekoračenje u količini ili iznosu ! = 602,
        Nema dovoljno novca ili količine ! = 603,
        Ne postoji stavka za prodaju ili storno ! = 604,
        Artikal nije programiran ! = 605,
        Zahtjev nije validan ! = 606,
        Cijena nije validna ili ne postoji ! = 607,
        Količina nije validna ili ne postoji ! = 608,
        Ne postoji veza sa PC ! = 609,
        Zahtjev nije validan za trenutni status uređaja ! = 610,
        Prekoračenje u prodaji po artiklima ! = 611,
        Prekoračenje u dnevnoj prodaji (dnevni izvještaj se mora pokreniti) !  = 614,
        Prekoračenje u prodaji po operateru (izvještaj po operaterima se mora pokreniti)
        !  = 615,
        Nema papira ! = 616,
        Pregrijavanje štampača !  = 617
```