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FUSSoap application for conformation receipts on FURS servers

User manual

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About the application

Application is used for exchanging data with FURS servers in enables conformations of receipts. It is intended for everyone who wants to skip programming and using XML, TLS, SOA, x509 technologies or their own development of such apps is not cost efficient.

Basic functions

- Sending receipts for conformation;
- Open / close business location;
- Checking ECHO communication;
- Retrieving EOR numbers from FURS server based on generated ZOI;
- Checking the status of send receipts;
- Saving receipts that doesn't receives EOR and automatically resend them later;
- Logging receipts with error;
- Logging all activities with FURS server (send request, replays from server, errors...);
- Enables more than one certificate on one register.

How does it work?

FUSSoap is a software client, that enables communication with server of Slovenian tax office – FURS through secure TLS communication. Exchange of data is synchronised, which means that FURS server automatically replays on client demand.

Certificates used for communication:

- **Client Certificate** – for tax conformation of receipts: *DacPotRac*. Client can retrieve his certificate through *eDavki* website and it has to be installed in folder: *Osebnna mapa*. It is used for encrypting messages about receipts and business locations.
- **Certificate** (public key) – used for establishing secure TLS connection and decrypting FURS server replies.

Requirements

App works in a background and communicates with outer applications through text files. To start working with app you need:

- Privet client certificate from website eDavki;
- Public certificate from FURS;
- Software requirements: MS Windows XP Sp3, Win 7/8/10 and **.NET v4.0**;
- Internet connection.

Working on Windows XP

- System has to be up to date (must be SP3)
- **Windows XP Embedded**: registry fix (<http://pii.si/download/Enable-XP-Embedded.zip>)
- Safety update - cryptography
<https://www.microsoft.com/en-us/download/confirmation.aspx?id=48214>
- Install **.NET v3.5** in **.NET 4.0.30319**

Installing and setting up

Installation

Install file is in ZIP file. Unzip it, start the installation and follow instructions.

After installation your application is located in **C:\1FURS\PU-APP**

Directory overview

FU-LOG

Here you can find log file in which apps saves all communication information with FURS server.

FU-APP

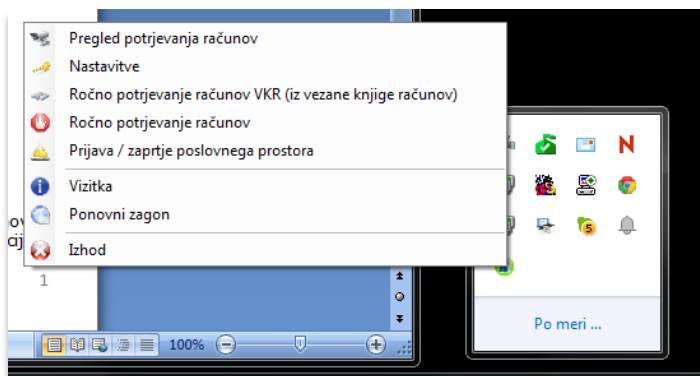
Directory with program files and certificates.

Directory **FU-IN and FU-OUT** are used for communicating with outer applications.

Basic setting before first user

You can find the application in your **taskbar**. With left click you get current status of receipts. With right click you can access:

- Overview of conformation process,
- Settings,
- Hand conformation of receipts
- Open/close business location



Slika 1 - PopUp menu modula v opravilni vrstici

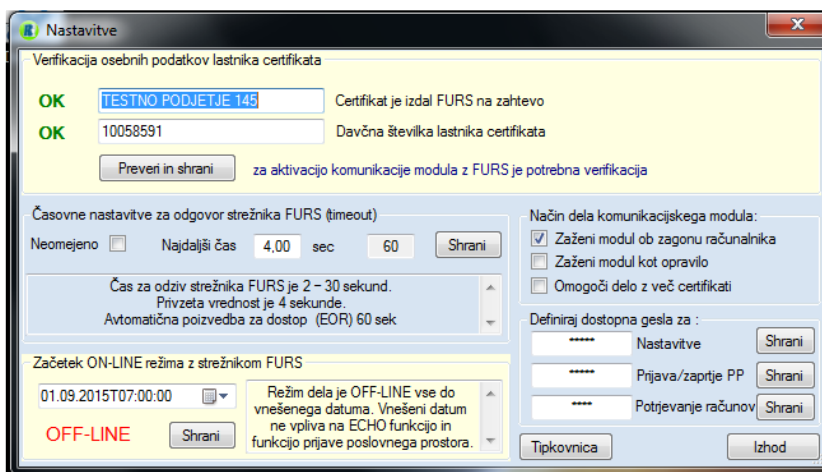
Verification of certificate in setting you password

First step is verification of your TAX ID number with your private certificated issued by FURS.

Setting up passwords for:

- Application settings
- Open/close business location
- Manual Receipt conformation

It's highly recommended to set up automatically start at OS start-up (Zaženi modul ob zagonu računalnika)



Opening business location

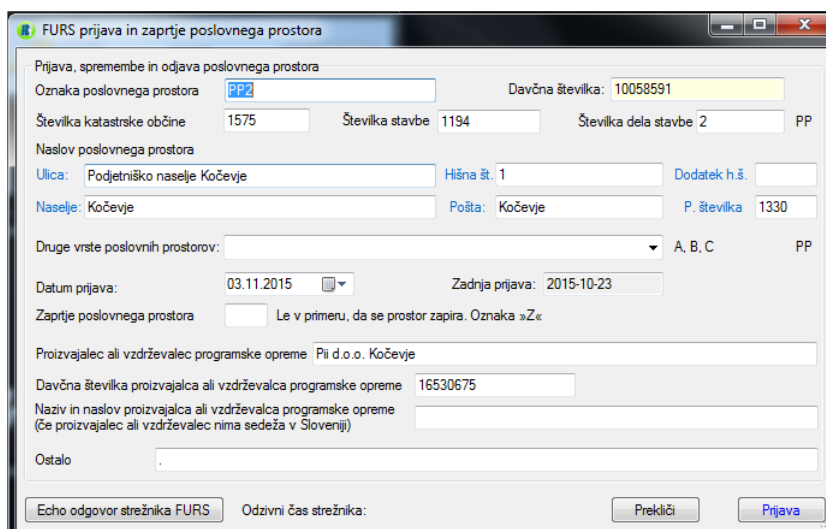
Before you start sending receipts use you have to open (register) your business location.

In this form you fill all of the data and confirm them with a click on "prijava".

Translations:

Location label, Tax ID, cadastral area, building number, apartment number.

Address: Street, House No., suffix, City, Post office, Post number



Connection app with your program

Communication runs through text files based on descriptors. Descriptors have keys and values. Each descriptor is in its own line of text file. At creation of text files you leave out empty descriptors.

Working directories

FU-IN

Your program has to create file with descriptor and values and copy it to this directory, where app can process it.

FU-OUT

When your receipts has been processed, application create file in this directory, where you can than read it and delete it.

Files format

Request/Response Code Page = 1250

Input file

File name should be the receipt number (length is limited only by Windows). File extension has to be **.in**

Name Example: 19410.in

You can find file example in: C:\IFURS\FU-APP\racun.in

Output file

After processing application return file with the **same name** and extension **.out** in directory FU-OUT

Name Example: 19410.out

You can find file example in: C:\IFURS\FU-APP\racun.out – more example at the end of this manual.

Problems with communication

If Application cannot retrieve EOR – problems with communication, changes file extension into **.inw**. You can define “time out” in application settings.

It also returns ZOI number and status: “waiting for conformation“ in an **.out** file in FU-OUT.

Name example: 19410.inw – changed extension

19410.out –ZOI and status: Waiting for conformation (»na čakanju na potrditev«)

Application automatically resend file to the FURS server for conformation. When conformation is received you will find EOR in your **.out** file.

Descriptions of communication files and descriptors

DESK	START-Length	ECHO DESCRIPTOR	NOTE
REGUEST:			
D120	1-4	D120	
	5-xx	Echo message	
RESPONSE:			
D201	1-4	D201	
	5-1	Status 0 = ok, 1 = error	
	6-xx	Echo message or error description	

DESK	START-Length	ECHO DESCRIPTOR	NOTE
REGUEST:			
D169	1-4	D169	
	5-8	TAX ID of the certificate	
	13-20	Business location label	
D170	1-4	D170	
	5-4	Cadastral area	
	9-5	Building number	
	14-4	Apartment number	
D171	1-4	D171	
	5-10	House number	
	15-10	House number suffix	
	25-100	Streets	
D172	1-4	D172	
	5-4	Post number	
	9-40	Post offices	
	49-100	Cities	
D173	1-4	D173	
	5-1	Movable office	A, B, C
D174	1-4	D174	
	5-10	Date of registration LLLL-MM-DD	
D175	1-4	D175	
	5-1	Closing business/office location	Z
D176	1-4	D176	
	5-8	Producer or maintainer of software (TAX ID)	
D177	1-4	D177	
	5-1000	Producer or maintainer of software not from Slovenia (TAX ID)	
D178	1-4	D178	
	5-1000	other notes	
RESPONSE:			
D202	1-4	D202	
	5-1	Status 0 = ok, 1 = error	
	6-xx	for status: 0 -> ID 36, 1 -> Error description	

DESK	START-Length	ECHO DESCRIPTOR	NOTE
REGUEST:			
		(VKR = Vezana knjiga računov - Bounded book of receipts)	
D140	1-4	D140	
	5-1	VKR: 1=YES, 0=NO	
	6-1	Way of signing Receipts number	C, B
	7-8	Tax ID	
	15-19	Date and time of receipt: LLLL-MM-DDTHH:MM:SS	
	15-10	Date of receipt: LLLL-MM-DD	VKR
D141	1-4	D141	
	5-20	Business location label	
	25-20	Electronic machine label	
	45-20	sequential number for receipt	
D142	1-4	D142 (Bounded book of receipts)	VKR
	5-20	Sequential number of receipt	
	25-2	Set number for receipt from VKR	Min/Max=2
	27-12	Serial number of VKR	Min/Max=12
	39-xx	Business location label	Max 20

Continue on next page...

DESK	START-Length	ECHO DESCRIPTOR	NOTE
D143	1-4 5-xx	D143 Customer TAX ID	Max 20
D144	1-4 5-14 19-14 33-14	D144 Receipt amount (14.2) Received amount (14.2) Amount of return (14.2) or empty	
D145	1-4 5-8	D145 - If issued in foreign language and for foreign account Customer TAX ID	
D146	1-4 5-5 10-14 24-14	D146 - YES, if exist TAX rate (5.2) TAX base (14.2) TAX value (14.2)	VAT
D147	1-4 5-5 10-14 24-14	D147 - YES, of exist TAX rate (5.2) TAX base (14.2) TAX value (14.2)	flat-rate allowance
D148	1-4 5-14	D148 - YES, if exist other taxes (14.2)	
D149	1-4 5-14	D149 - YES, if exist value of exempt supplies (14.2)	
D150	1-4 5-14	D150 - YES, if exist Value of products according to 76.a paragraph of "Zakon o DDV" (14.2)	
D151	1-4 5-14	D151 - YES, if exist Value of untaxable products (14.2)	
D152	1-4 5-14	D152 - YES, if exist products relates to the special arrangement (14.2)	
D153	1-4 5-8	D153 - YES, if Slovenian personal tax ID Personal TAX ID (salesperson)	foreigners without
D154	1-4 5-32	D154 (<u>Without D154 application forms ZOI</u>) Protective number of receipt issuer - ZOI	
D155	1-4 5-1	D155 - YES, if receipt is send latter label of latter send receipt	
D156	1-4 5-20 25-20 45-20 65-19	D156 - Reference of changed receipt Business location label Electronic machine label sequential receipt number Date and time of the receipt that is changing	on register
D157	1-4 5-20 25-2 27-12 39-10	D157 - Reference of changed receipt Sequential number of changing receipt Set number for receipt from VKR Serial number of VKR Date and time of the receipt that is changing	VKR
D158	1-4 5-1000	D158 - Note (extra note) you can add extra notes	

RESPONSE:

D200	1-4	D200	
	5-1	Status: 0 = ok 1 = receipt waits for conformation 2 = error with data preparation 3 = error - other 4 = later confirmed receipt / EOR	
	6-32	ZOI - Protective number of receipt issuer	
	38-60	Barcode ZOI transformed into decimal form with added TAX ID, receipt date, control code and leading zeros	
	98-36	EOR - unique account ID from FURS	
	134-36	UUID (for status 0 and 4)	
	134-4	Error number (for status 2 and 3)	
	139-xx	Error description (For status 2 and 3)	

Response examples in .out file

Response "OK"

If status is **0 = ok** then *.out* file looks like this:

```
D200069a4d1b56404e20df8a11e80f82f2ef2140424729637074860864903853353546493682165306751512092204401daa2ee15-
b53d-4907-b9c7-fcd51ccb6ed044c93d52-94de-4028-8c70-3f6ac996981a
```

This means

```
Status      0
ZOI         69a4d1b56404e20df8a11e80f82f2ef2
Barcode     140424729637074860864903853353546493682165306751512092204401
EOR        daa2ee15-b53d-4907-b9c7-fcd51ccb6ed0
UID         44c93d52-94de-4028-8c70-3f6ac996981a
```

Respond "error – other"

Content of *.out* with error

```
D200369a4d1b56404e20df8a11e80f82f2ef2140424729637074860864903853353546493682165306751512092204401
(EOR?)ErrorS001Sporočilo ni v skladu s shemo XML
```

This means

```
Status      3
ZOI         c5bcfd8dd6d5ab7c6c0a2a0b3019da38
Barcode     140424729637074860864903853353546493682165306751512092204401
EOR
UID
Error       S001
Note        Sporočilo ni v skladu s shemo XML
```

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