Reporting Decree – Workshop1

MINISTRY OF FINANCE OF THE CZECH REPUBLIC

25 February 2019

PROGRAM

- General information, support of Ministry of Finance
- Provision of the automated outputs
- Registration of communication parameters
- Web application for operators
- Helpdesk
- Break
- Questions and answers to the first part
- Playground – public testing environment
- Break
- Reference Client
- Questions and answers to the second part

REPORTING DECREE

NAME

Decree of the Ministry of Finance No. 10/2019 Coll., On the method of reporting and sending information and data transmission by gambling operators, the scope of the transmitted data and other technical parameters of the data transmission.

PURPOSE OF THE DECREE

Unification of ununified practice
Transmission in the unified way
Machine-readability of data
Instrument to check compliance with legal obligations

DATES

EU Notification - September 2018 (wording of the Decree is known)
Valid from 18 January 2019
Registration becomes effective on 1 April 2019 (Operators must **register by 2 May 2019**)
The Decree becomes effective on 1 June 2019 (extended by 2 months)

SUPPORT OF MINISTRY OF FINANCE

HELPDESK

- **launch – 4 March 2019**
- a provision of a unified communication channel for the reslution of technical and methodical problems and questions of gambling operators

PUBLIC TESTING ENVIRONMENT FOR OPERATORS (PLAYGROUND)

- **launch – beginning of March 2019**
- form for registering operator‘s communication parameters for testing
- downloading data packages from an operator‘s web server
- a cycle of downloading data packages and correcting formal errors according to the Decree
- helping tools for testing management etc.

REFERENCE CLIENT

- **publication – partly already available, complete by the end of the week**
- a set of free-to-use tools and instructions for the Linux and Windows environments, including the source code and technical documentation

SUPPORT OF MINISTRY OF FINANCE

INTERACTIVE MODEL FOR DAILY GAME REPORTING

- **publication – March 2019**
- interactive tool in MS Excel format for manual preparation of contents of data packages (CSV files); it automates helping functions such as filling in identifiers, links, basic checks for the completeness and syntax correctness of data, it exports CSV files

METHODOLOGY

- **publication – March 2019**
- data models for individual types of games
- explanation of individual items
- explanation of selected use cases

FAQ

- **gradual publication and update**

More details on these topics at the 2nd workshop - 11 March 2019 from 9am

For more methodical materials and technical information, please visit:

www.mfcr.cz/hazard

section: Reporting Decree

News

STRUCTURE OF THE REPORTING DECREE

FIRST PART - **subject of modification and general requirements for the automated output**
- registration
- method of provision of the automated output
- corrections of errors – formal and material

SECOND PART - **remote access**
- frequency of provision
- processing time

THIRD PART - **daily game reporting and daily game record**
- basic and broader scope

FOURTH PART - **sending and reporting information to the supervisory authorities**

FIFTH PART - **notice of notification and efficiency**

ATTACHMENT - **automated output**
- name of a data package
- requirements for data files
- content of the automated output
- provision of the automated output
- common provisions

REMOTE ACCESS

DEFINITION OF REMOTE ACCESS:

secure remote access to an operator‘s server providing a chronological overview of game and financial data

OBLIGATION TO PROVIDE REMOTE ACCESS

provided during operation of:

- lotteries (internet and land-based)
- fixed-odds betting (internet and land-based)
- totalizator games (internet and land-based)
- bingo (internet)
- technical games (internet and land-based)
- live games (internet)

always one automated output (data package) **for one type** of gambling game individually

FORM OF PROVISION

in the form of automated output for remote access → **the so-called Big model**

METHOD, SCOPE, FORMAT OF PROVISION

set out in the annex to the Decree

FREQUENCY OF PROVISION

for **8 hours of operation** of a gambling game beginning always at 00:00, 08:00 and 16:00
data processing time - **8 hours**

DAILY GAME REPORTING

LIVE GAME IN A CASINO (LAND-BASED)

OBLIGATION TO PROVIDE DAILY GAME REPORTING

set out in Section 60 of the Gaming Act
the automated output is provided **separately for each casino**

FREQUENCY OF PROVISION

it is **always** provided **per calendar month**
within 10 days after its expiration

FORM OF PROVISION

in the form of automated output for daily game reporting → **the so-called Small model**

METHOD, SCOPE, FORMAT OF PROVISION

set out in the attachment to the Decree

DAILY GAME RECORD

BINGO IN A CASINO (LAND-BASED)

OBLIGATION TO PROVIDE DAILY GAME RECORD

set out in Section 41 of the Gaming Act

poskytuje se automatizovaný výstup **za každé kasino,** ve kterém je provozováno bingo, **zvlášť**

the automated output is provided **separately for each casino,** in which bingo is operated

FREQUENCY OF PROVISION

it is always provided **per calendar month**

within 10 days after its expiration

FORM OF PROVISION

n the form of automated output for daily game record → **the so-called Small model**

METHOD, SCOPE, FORMAT OF PROVISION

set out in the attachment to the Decree

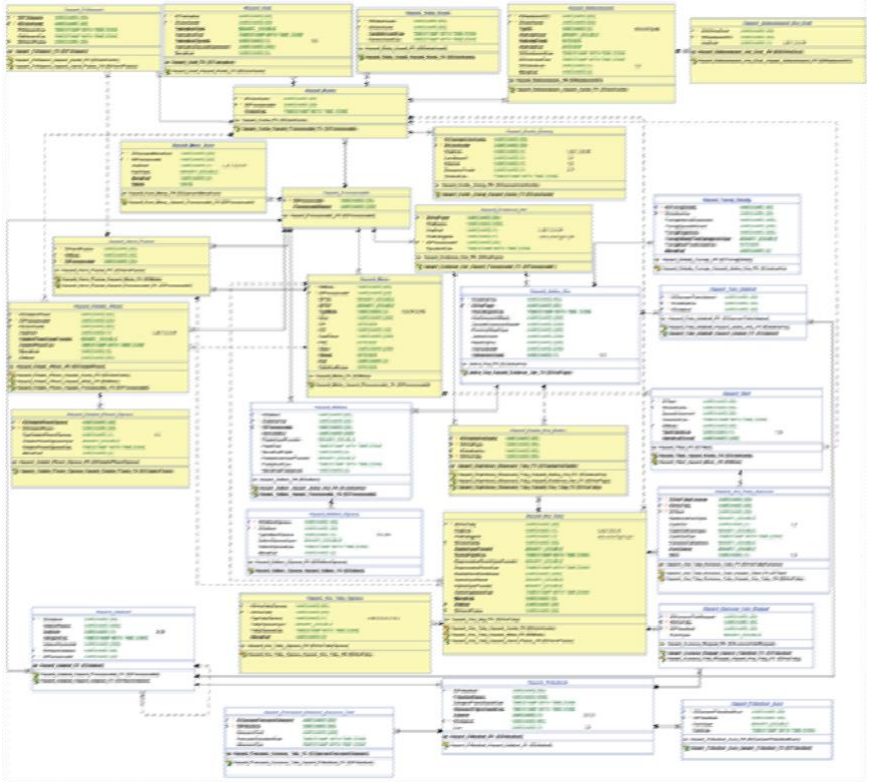
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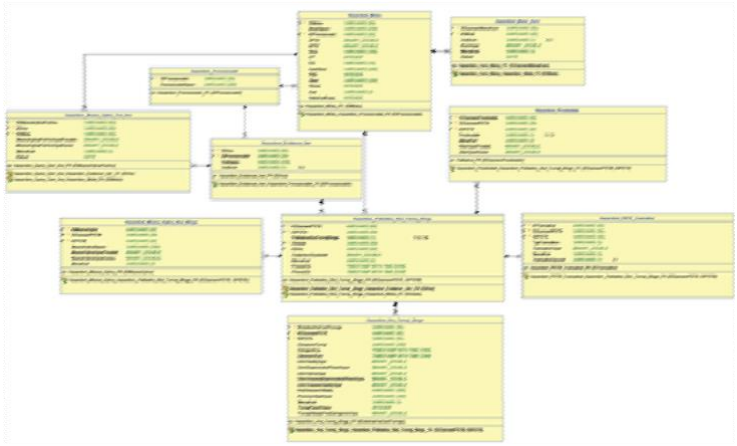
Preliminary publication of technical materials

PRELIMINARY PUBLICATION OF TECHNICAL MATERIALS

DATA MODEL

Machine-readable definitions of data models according to the Decree
Marking of tables relevant to each type of gambling game





```
-- Generated by Oracle SQL Developer Data Modeler 17.3.0.261.1529
--    site:      Oracle Database 11g
--    type:      Oracle Database 11g



CREATE TABLE hazard_doba_ucasti (
    iddobaucasti       VARCHAR2(50) NOT NULL,
    iduzivkonto        VARCHAR2(50) NOT NULL,
    zacatekucasticas   TIMESTAMP WITH TIME ZONE NOT NULL,
    konecucasticas     TIMESTAMP WITH TIME ZONE
);

ALTER TABLE hazard_doba_ucasti ADD CONSTRAINT hazard_doba_ucasti_pk PRIMARY KEY (
iddobaucasti );
```

REFERENCE CLIENT

Parts of Reference Client in the form of tracking changes (GitHub)

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Provision of the automated outputs

PROVISION OF THE AUTOMATED OUTPUTS

TERMINOLOGY

Data package - operator, type of game (and casino) per one reporting period
Set of packages – operator, type of game (and casino)
Confirmation package – confirms formal correctness
Communication parameters - data needed to technically secure the provision of the automated output
Big model – remote access
Small model – daily game reporting and daily game record

NAME OF PACKAGE – BIG MODEL

<ID Provozovatele>-V-<RRRRMMDDHH>-<Druh hry>-<Verze>.zip.p7e.p7s
123245-V-2019022500-T-01.zip.p7e.p7s
123245-V-2019022500-T-01.ok.zip.p7e.p7s

NAME OF PACKAGE – SMALL MODEL

<ID Provozovatele>-M-<RRRRMM>-<Druh hry>-<Kasino>-<Verze>.zip.p7e.p7s
123245-M-201902-Z-54321-01.zip.p7e.p7s
123245-M-201902-Z-54321-01.err.zip.p7e.p7s
123245-M-201902-Z-54321-02.zip.p7e.p7s

PROVISION OF THE AUTOMATED OUTPUTS

COMMUNICATION parameters OF AN OPERATOR

URL for downloading packages (web server of an operator)
URL for notification of confirmation packages OK (web server of an operator)
URL for notification of confirmation packages ERR (web server of an operator)
Certificate of Recognized Electronic Seal (operator: package sealing)
- qualified certificate for a recognized seal from an accredited CA

Encryption Certificate (CA: encryption of confirmation packages)
TLS Certificate of the web server of an operator(CS: downloading packages)
TLS Authentication Certificate (operator: downloading confirmation packages)

Possibility to register different sets of communication parameters for individual sets of packages (types of games or casinos).
Possibility of several valid certificates at the same time (suitable e.g. for renewal).

SAFETY OF COMMUNICATION parameters AND DATA

Encryption and Recognized Electronic Seal, TLS.
Selection of a certification authority and protection of private keys is an operator‘s responsibility. We recommend a 2048-bit private key length.
Transmission (registration) of communication parameters in the form of electronic submission according to the Administrative Procedure Code.

PROVISION OF THE AUTOMATED OUTPUTS

COMMUNICATION parameters OF CUSTOMS ADMINISTRATION

URL for downloading confirmation packages (web server of CA)
Certificate of Qualified Electronic Seal (CA: confirmation package sealing)
Encryption Certificate (operator: encryption of confirmation packages)
TLS Certificate of the web server of CA (operator: downloading confirmation packages)
TLS Authentication Certificate (CA: downloading packages)

One set is expected for all operators and sets of packages.
Possibility of several valid certificates at the same time (suitable e.g. for renewal).

SAFETY OF COMMUNICATION parameters AND DATA

Encryption, Qualified Electronic Seal and time stamps, TLS
Certificates of recognized public certification authorities
Management and storage of keys and data in accordance with the requirements of the Cybersecurity Act (level VIS).
Issue of communication parameters on MF website, electronically signed or sealed package of communication parameters

PROVISION OF THE AUTOMATED OUTPUTS

PROCESS OF DATA PACKAGE PROVISION

For each series of packages at the time defined by the Decree:

- (tabulka.csv) to put together a set of CSV files for relevant period
- (balíček-01.zip) to create a compressed file
- (.p7e, CMS) to encrypt with the CA encryption certificate
- (.p7s, CAdES-B-B) to seal with a recognized seal
- issuance on operator‘s website (7 days minimum)
- waiting for notification of confirmation package, or repeated attempts to download the confirmation package from the CA website
- (.p7s, CAdES-B-T) verification of the seal and the timestamp
- (.p7e, CMS) decryption with operator‘s encryption key
- (.zip) extraction of compressed file
- preparation of process protocol

In case of receipt of ERR confirmation pack:

- correction within 2 business days of the issue of the confirmation package
- number of version of the package is one higher

PROVISION OF THE AUTOMATED OUTPUTS

CHECKS OF FORMAL CORRECTNESS OF PACKAGES

based of the requirements stated in the Decree.
Syntactic – data types and field formats, empty field, package context
Structural - primary keys and reference integrity, allowed record changes
Semantic – e.g. how to record reduction and cancellation of previously closed bets

LINKS OF CHECKS IN A PACKAGE SERIES

In some cases, correction of the previous package can cause formal incorrectness of subsequent packages.
In some cases, formal correctness of a data package can be confirmed only after the corrections of all previous packages are processed.

CONTENT OF CONFIRMATION PACKAGE

validation-report.csv – structured overview of the.csv files processing
validation-errors.csv – structured detailed error messages
validation-warnings.csv – structured detailed alert notifications
validation-processing.txt – unstructured log of processing

Detailed list of checks and file format will be presented at the second workshop.

PROVISION OF THE AUTOMATED OUTPUTS

CORRECTIONS OF MATERIAL ERRORS

It is possible to corect an already received data package.
Extraordinary operation, follows the form of submission according to the Administrative Procedure Code.
Operator shall state:

- data to determine the corrected automated output
  - i.e. the name of the package with version one higher than the last OK version
- the reason for correction of the automated output

The package download and package check will be carried out in the standard way.
As part of formal checks of the package, there will also be carried out checks on subsequent packages.
The package may be rejected on the basis of formal checks of the subsequent packages.
Operator may report this in the submission and also provide new versions of the subsequent packages.

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Registration of communication parameters

REGISTRATION OF COMMUNICATION PARAMETERS

PROCESS AND ADMINISTRATIVE PRINCIPLES

Submission according to the Administrative Procedure Code through the Customs Administration web form.
It can also be announced prior to the issuance of basic licence or premit to place a gaming establishment 30 days prior to the start of automated output provision and 5 days prior to changing the parameters
Possibility to register different sets of communication parameters for individual series of packages (types of games or casino).
Each series of packages must be registered.

PRACTICAL AND TECHNICAL PRINCIPLES

Each series of packages must be registered.
Possibility of several valid certificates at the same time (suitable e.g. for renewal).
Possibility to „assemble“ and change the configuration of communication parameters by multiple submissions, specifying different sets of packages.
Each submission contains the „Valid since“ parameter, and the system selects the currently valid configuration.

REGISTRATION OF COMMUNICATION PARAMETERS

IDENTIFICATION OF THE OFFICE

Customs Office for | **No. of the Division**

IDENTIFICATION OF THE NOTIFICATION

For the notice of start, termination, suspension of operation, the notice of organizing tournaments of live game in casino, in the case of Protocol on lottery draw or on termination of the sale of lottery tickets, use the form:
Podání provozovatelů loterií a jiných podobných her podle zákona č. 202/1990 Sb., o loteriích a jiných podobných hrách, nebo provozovatelů hazardních her podle zákona č. 186/2016 Sb., o hazardních hrách.

Type of submission
- (•) Notification to register
- ( ) Notification about a change
- ( ) Notification about cancellation

Operator
- (•) Legal person
- ( ) Legal foreign person

Notification is submitted by:
- (•) Operator
- ( ) Representative of the operator: natural person
- ( ) Representative of the operator: legal person

Identifier of the notification 20190224202318

Initial validity date

Date of completion

☐ This submission replaces all notices with a later validity date for all the series of automated outputs stated below

REGISTRATION OF COMMUNICATION PARAMETERS

OPERATOR

Identification number

Load data

Operator‘s name

OPERATOR‘S REGISTERED OFFICE

Street | Land Registry No. | House No.

City | City quarter | Postcode

OPERATOR

Operator‘s own number

Operator‘s name

FOREIGN OPERATOR‘S REGISTERED OFFICE

Street | Land Registry No. | House No.

City | City quarter | Postcode

Country | Phone No. | E-mail

REGISTRATION OF COMMUNICATION PARAMETERS

PERSON AUTHORIZED TO SIGN

Name | Surname | Title

Relation to the legal person

NATURAL PERSON THAT SUBMITS THE NOTICE ON BEHALF OF THE OPERATOR

Name | Surname | Date of birth

Date of the power of attorney issue | Load the power of attorney | Name of the attachment - the PoA

LEGAL PERSON THAT SUBMITS THE NOTICE ON BEHALF OF THE OPERATOR

The person‘s identification number

The person‘s name

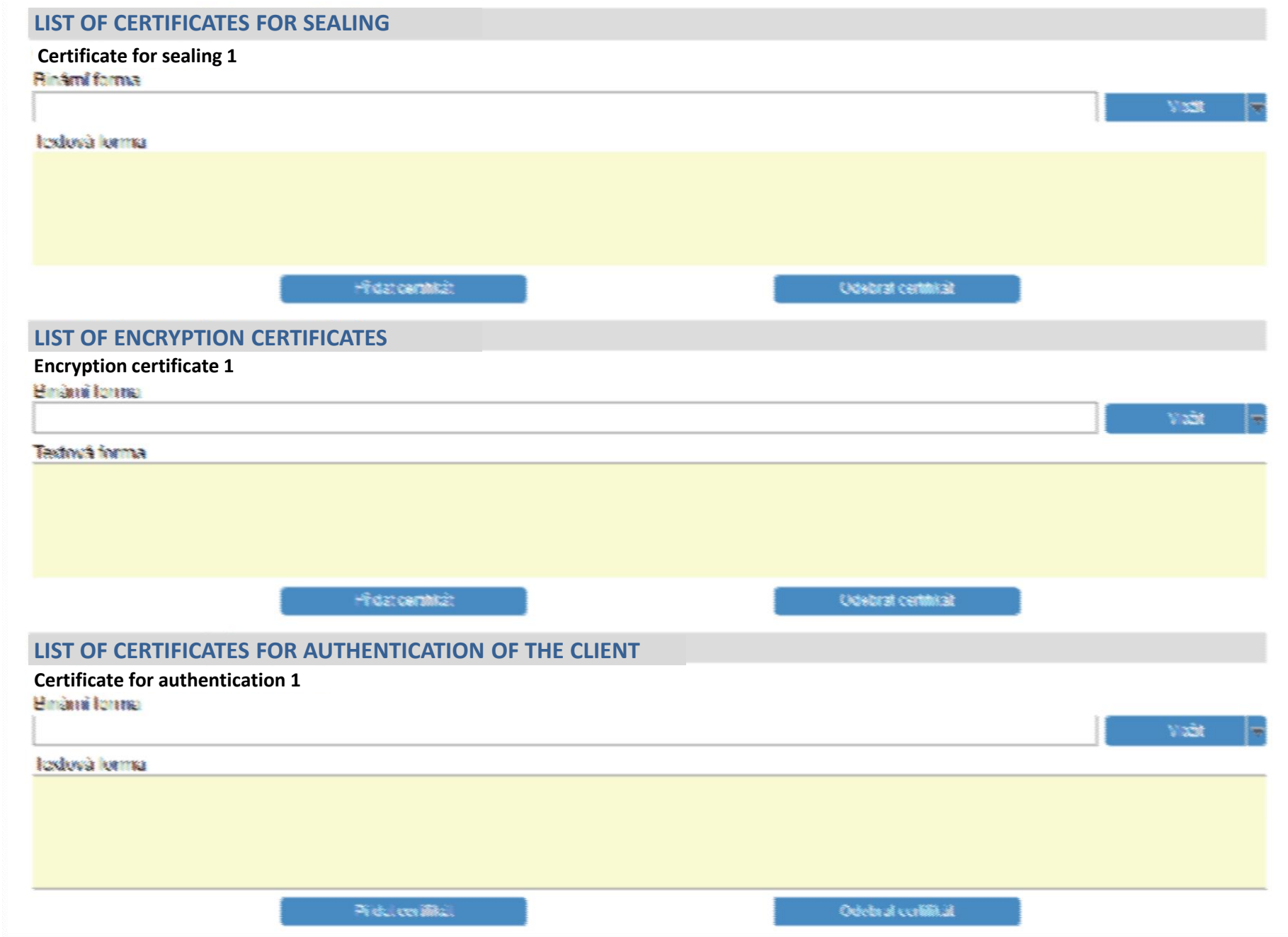
Date of the power of attorney issue | Load the power of attorney | Name of the attachment - the PoA

PERSON AUTHORIZED TO SIGN

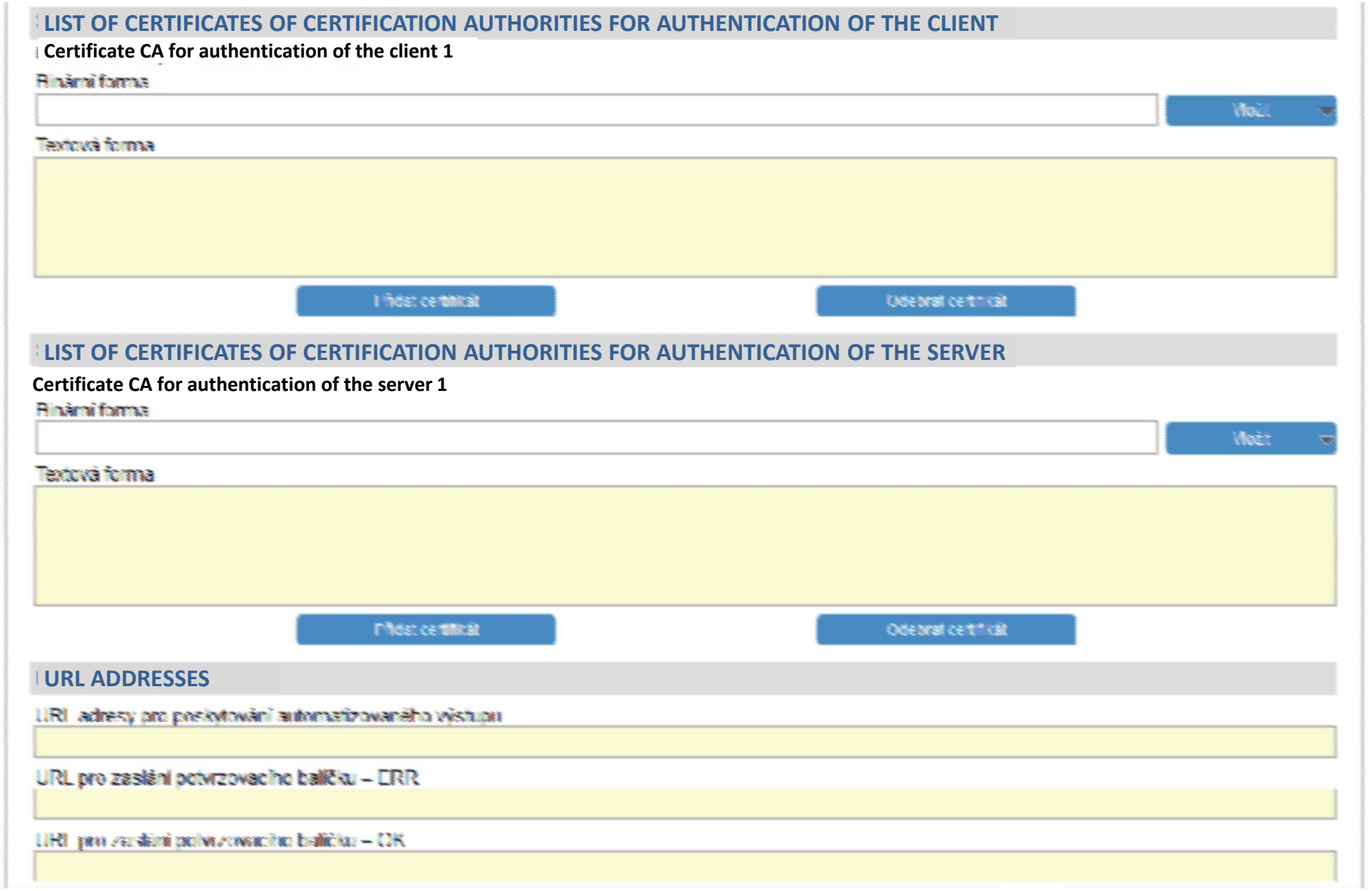
Name | Surname | Title

Relation to the legal person

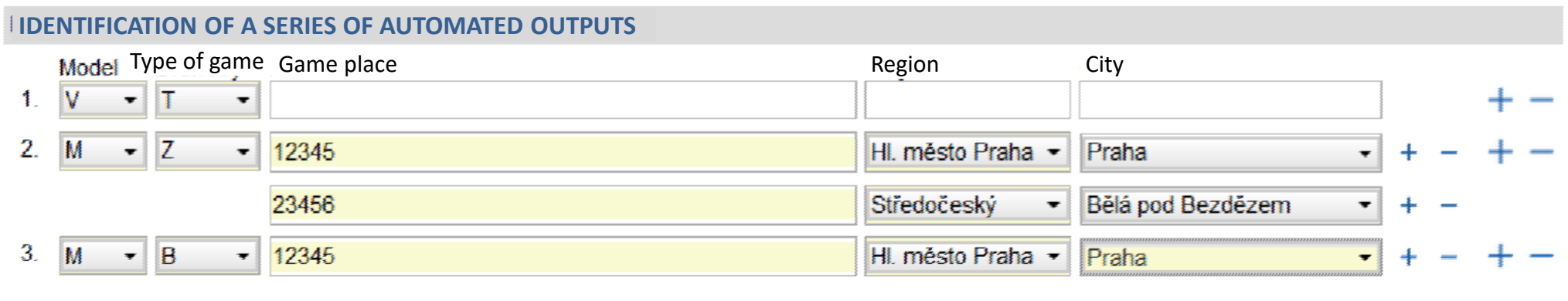
REGISTRATION OF COMMUNICATION PARAMETERS



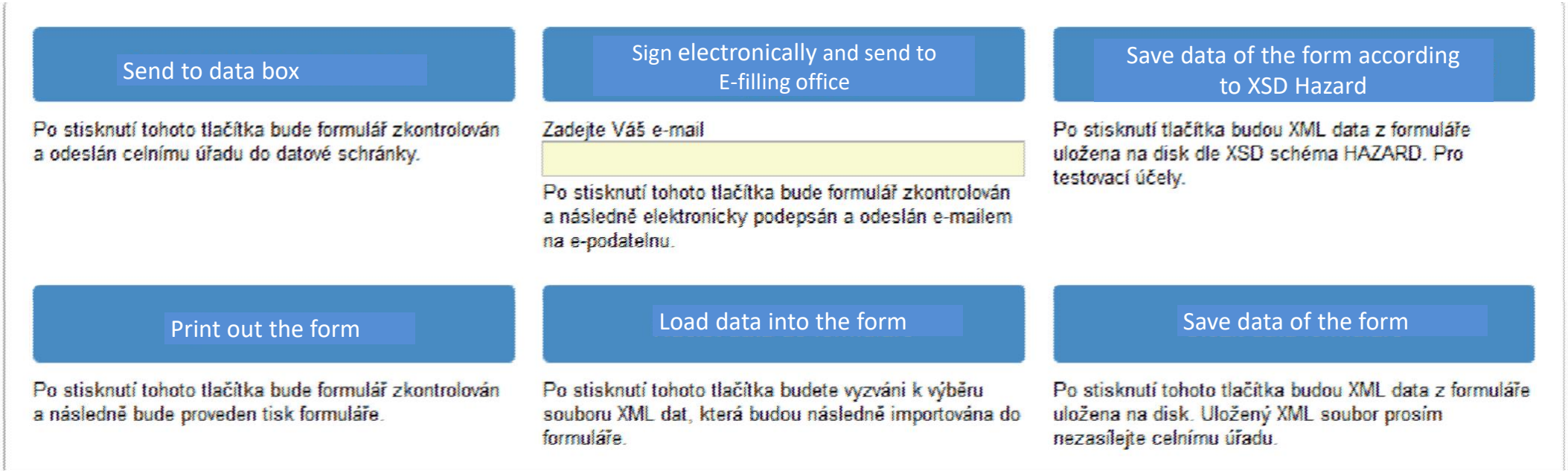
REGISTRATION OF COMMUNICATION PARAMETERS



REGISTRATION OF COMMUNICATION PARAMETERS



REGISTRATION OF COMMUNICATION PARAMETERS





Web application for operators

WEB APPLICATION FOR OPERATORS

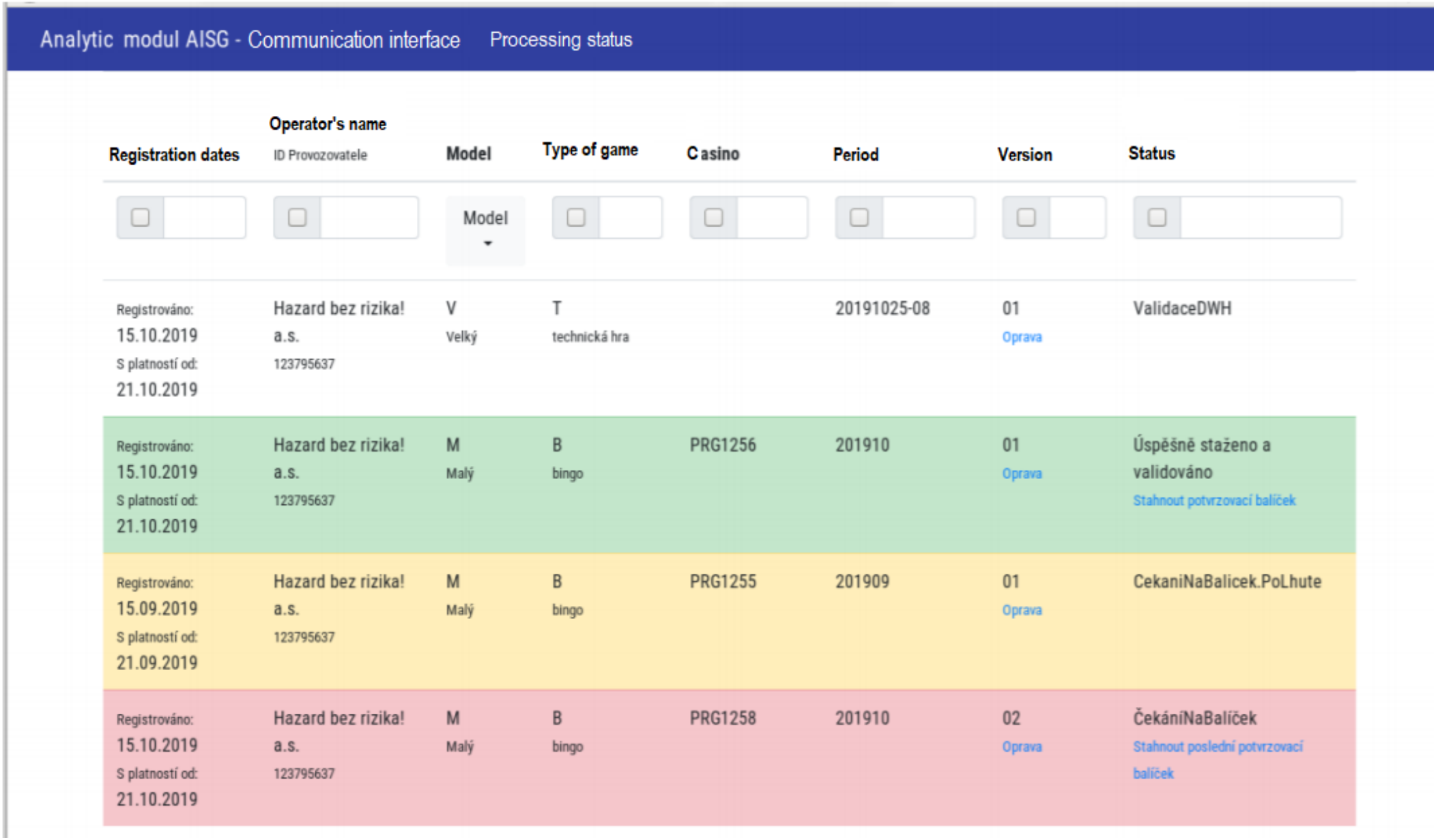
WEB APPLICATION

Extending the concept of confirmation packages downloading - the same URL and authentication certificates. It only displays the packages associated with the stated authentication certificate!

USE

Manual downloading of confirmation packages
Package status overview
Overview of registered series of packages
Diagnostics of registration errors

WEB APPLICATION FOR OPERATORS



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Helpdesk

HELPDESK

PURPOSE

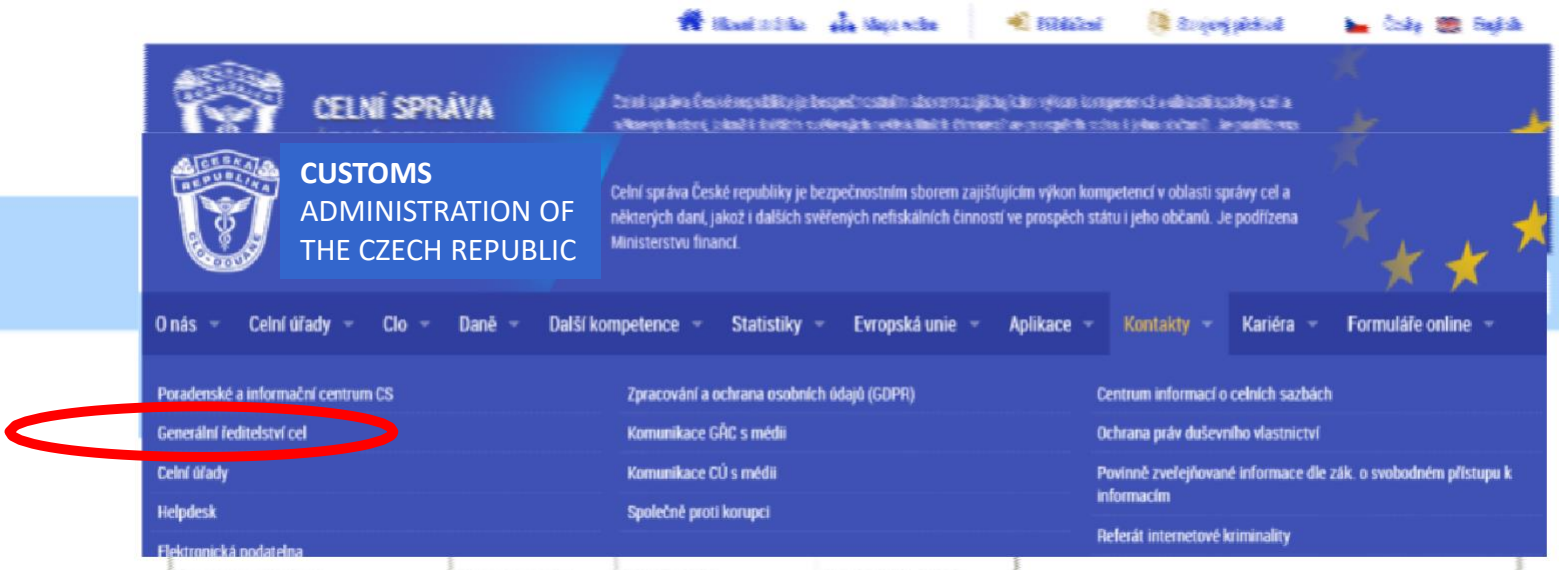
Technical support of the registration
Technical support of the automated outputs provision
Technical support of playground
Methodical support

CONTACTS

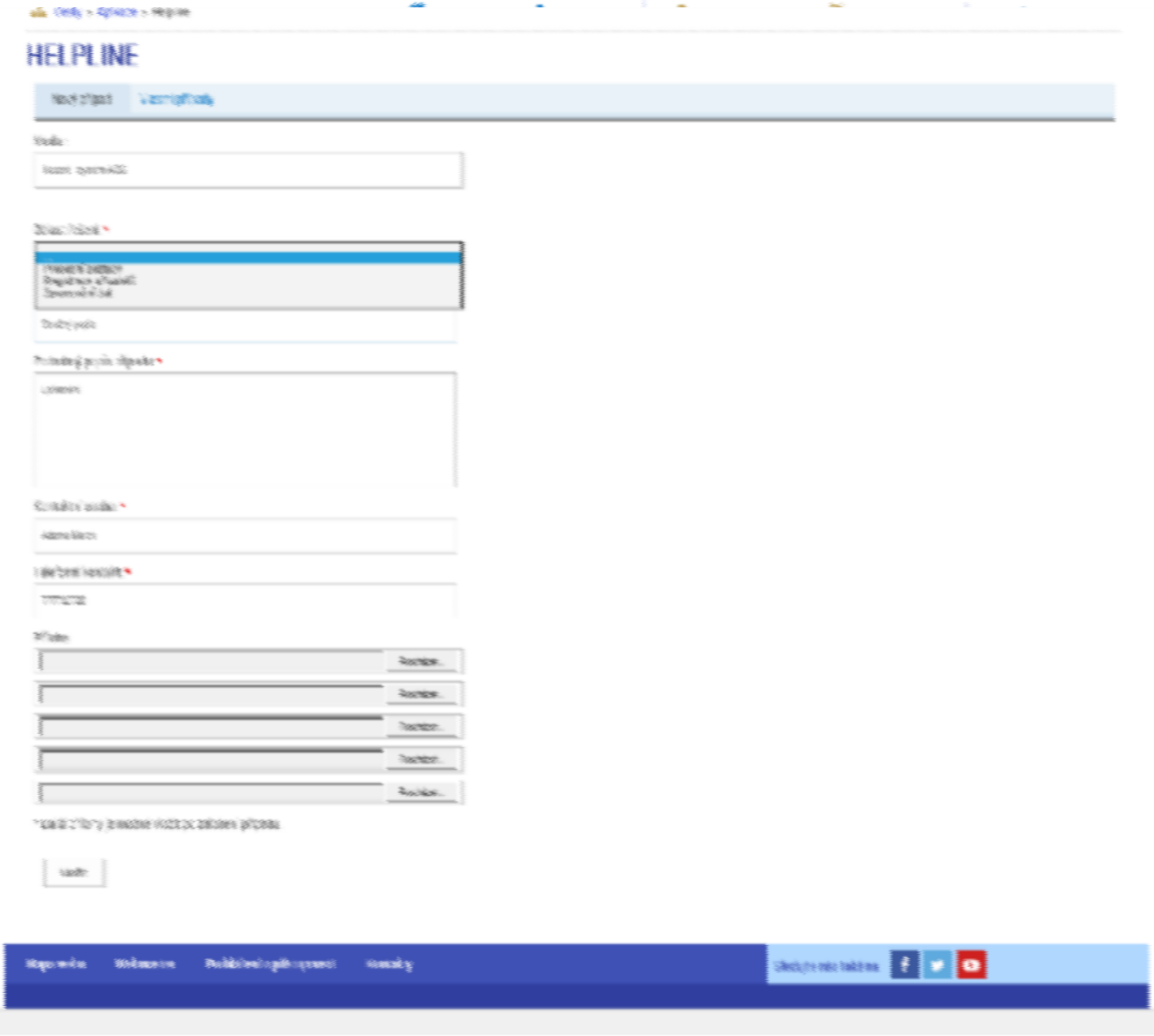
application HelpLine
https://www.celnisprava.cz/cz/aplikace/Stranky/helpline.aspx
- Hazard category
e-mail: hazard@cs.mfcr.cz
during working hours: 7:00 – 15:30 on the phone: +420 261 331 997

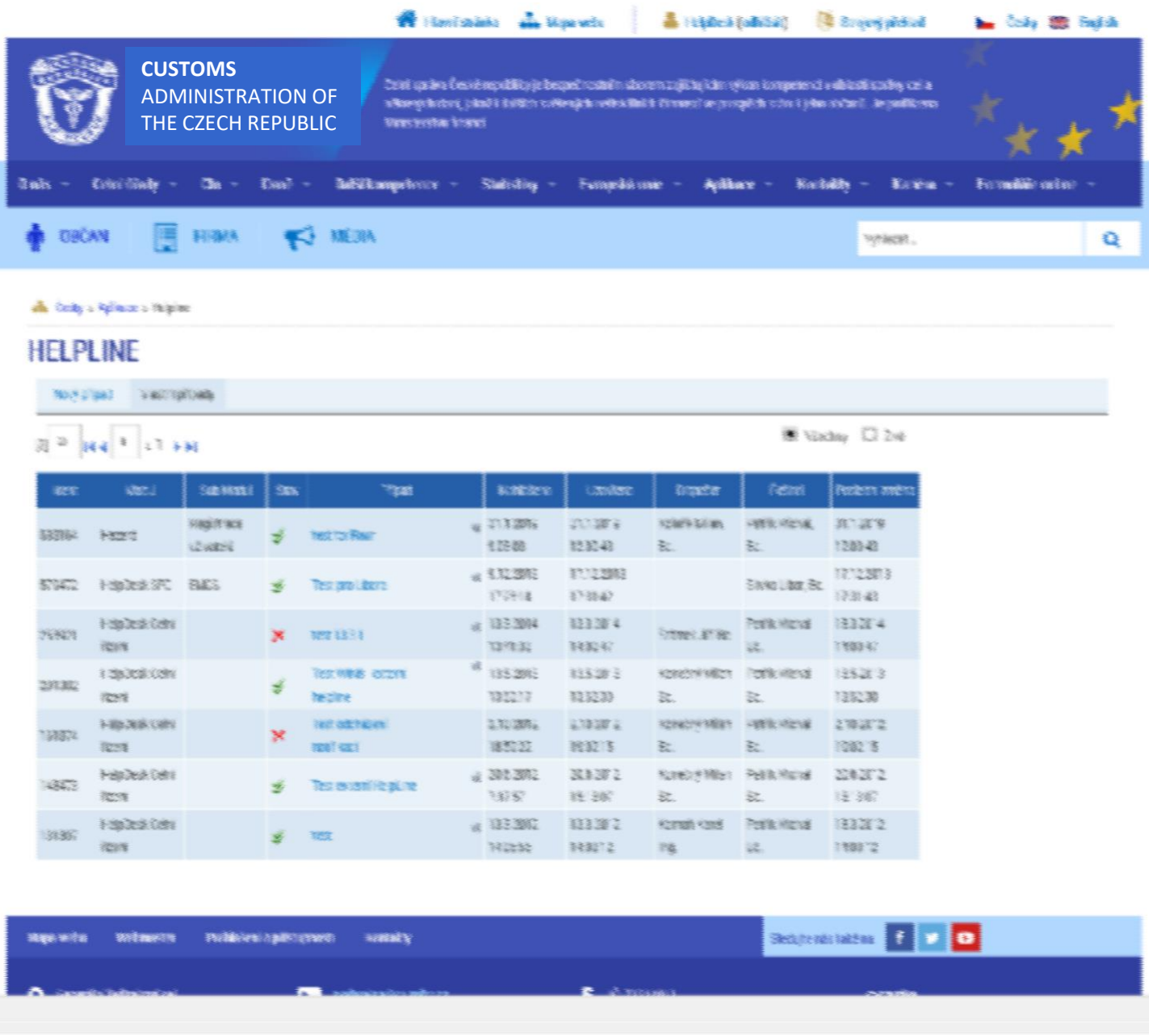
START OF OPERATION

4 March 2019


CELNÍ SPRÁVA
CUSTOMS
ADMINISTRATION OF
THE CZECH REPUBLIC
Celní správa České republiky je bezpečnostním sborem zajišťujícím výkon kompetencí v oblasti správy cel a některých daní, jakož i dalších svěřených nefiskálních činností ve prospěch státu i jeho občanů. Je podřízena Ministerstvu financí.
O nás
Celní úřady
Clo
Daně
Další kompetence
Statistiky
Evropská unie
Aplikace
Kontakty
Kariéra
Formuláře online
Poradenské a informační centrum CS
Generální ředitelství cel
Celní úřady
Helpdesk
Elektronická podatelna
Zpracování a ochrana osobních údajů (GDPR)
Komunikace GŘC s médii
Komunikace CÚ s médii
Společně proti korupci
Centrum informací o celních sazbách
Ochrana práv duševního vlastnictví
Povinně zveřejňované informace dle zák. o svobodném přístupu k informacím
Referát internetové kriminality


CUSTOMS
ADMINISTRATION OF
THE CZECH REPUBLIC
LOGIN
E-MAIL
PASSWORD
LOGIN


HELPLINE


CUSTOMS
ADMINISTRATION OF
THE CZECH REPUBLIC
HELPLINE

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Break
Your questions

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Playground

PLAYGROUND

PUBLIC TESTING ENVIRONMENT FOR OPERATORS

To support the testing of operators‘ systems
Separate test instance of the system
Separate database of communication parameters and the registration form.
It implements a complete cycle of downloading series of packages, including timing and corrections.
Advanced control options to support the testing.
To support operators via HelpDesk

TECHNICAL PARAMETERS

Requirement – testing data, different sets of communication parameters.
Same level of protection of data from the CA.
Recognized Electronic seal of operator as well as of the CA

- need to provide qualified certificate for the recognized seal

Deletion of data and scheduled processes (not registrations) once a week at weekends.

PLAYGROUND

PLAYGROUND LAUNCH

1 March – Publication of URL accesses and communication parameters of the CA for PG
4 March – Registration of communication parameters
by 11 March – Downloading of registered series of packages and syntax checks
by mid-April – Structural and semantic checks

Operation 7x24
Support 5x10 (8:00-18:00)

PLAYGROUND

SELF-REGISTRATION

After the first registration, using the registered authentication certificate.
Submission of the XML form of registration form (XSD Hazard – to be published).
We also recommend that you test the registration process via the web form.
Possibility to cancel all self-registrations.

REGISTRATION WITH EARLIER DATE

Possibility to „turn back time“, stating an earlier date of validity on the registration form or in the registration XML

DELETION OF THE FOLLOWING CHANGES IN REGISTRATION

In the registration form:



In XML: vymazatNasledujiciPlanovaneZmeny

PACKAGE CORRECTION

Possibility to cause „correction of material errors“ in the web application for operators.

PLAYGROUND

STRUCTURE OF XML Hazard

```
[atr]IDProvozovatel
[atr]NazevProvozovatel
[atr]PlatnostOd  [atr]Podano
[atr]IDPodani
[atr]PrislusnyUrad  Zmenit
{0,*}
      [atr]zmenitExistujici
      [atr]vymazatNasledujiciPlanovaneZmeny
      Certifikaty:
            PeceteniCertifikaty
                  certifikatBinarni {0,*}
                  certifikatText {0,*}
            SifrovaniCertifikaty
            AutentizaceKlientaCertifikaty
            AutentizaceKlientaCACertifikaty
            AutentizaceServeruCACertifikaty
      Url
            StazeniBalickuUrl
            NotifikaceChybyUrl
            NotifikaceUspechuUrl
      Balicek  {1,*}
            [atr]Model
            [atr]HraDruh
            [atr]Kasino
Smazat {0,*}
      Balicek {1,*}
            [atr]Model
            [atr]HraDruh
            [atr]Kasino
```

TESTING OF OPERATOR‘ SYSTEMS

USING THE REFERENCE CLIENT

CLI tools to validate package contents
CLI tools to encrypt and decrypt a package
CLI tools to seal and to verfify seals

REGISTRATION INTO PLAYGROUND

Testing the registration process and combinations of communication parameters.
Self-registration
Verification of registration results in the web application for operators.

USE OF PLAYGROUND

Reassembly and check of one package - the mechanism of correcting formal errors and „correcting material errors“.
Regular cycle of packages downloading - the possibility of repeating registrations with an earlier date.
„Cleaning“ – deletion of self-registrations, registration with an earlier date in combination with deletion of following changes.
Automatical deletion of data and scheduled processes (not registrations) once a week at weekends.

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Break
Your questions



Reference Client

REFERENCE CLIENT

GOALS

To facilitate the implementation to operators

To solidify the interpretation of the Decree

To provide testing tools

WHAT IS AVAILABLE

Tool to check the data format

Tools to create data package

Tools to process the confirmation package

To set up a common web server to connect to the interface

FORM OF DISTRIBUTION

Source codes of the individual tools on GitHub

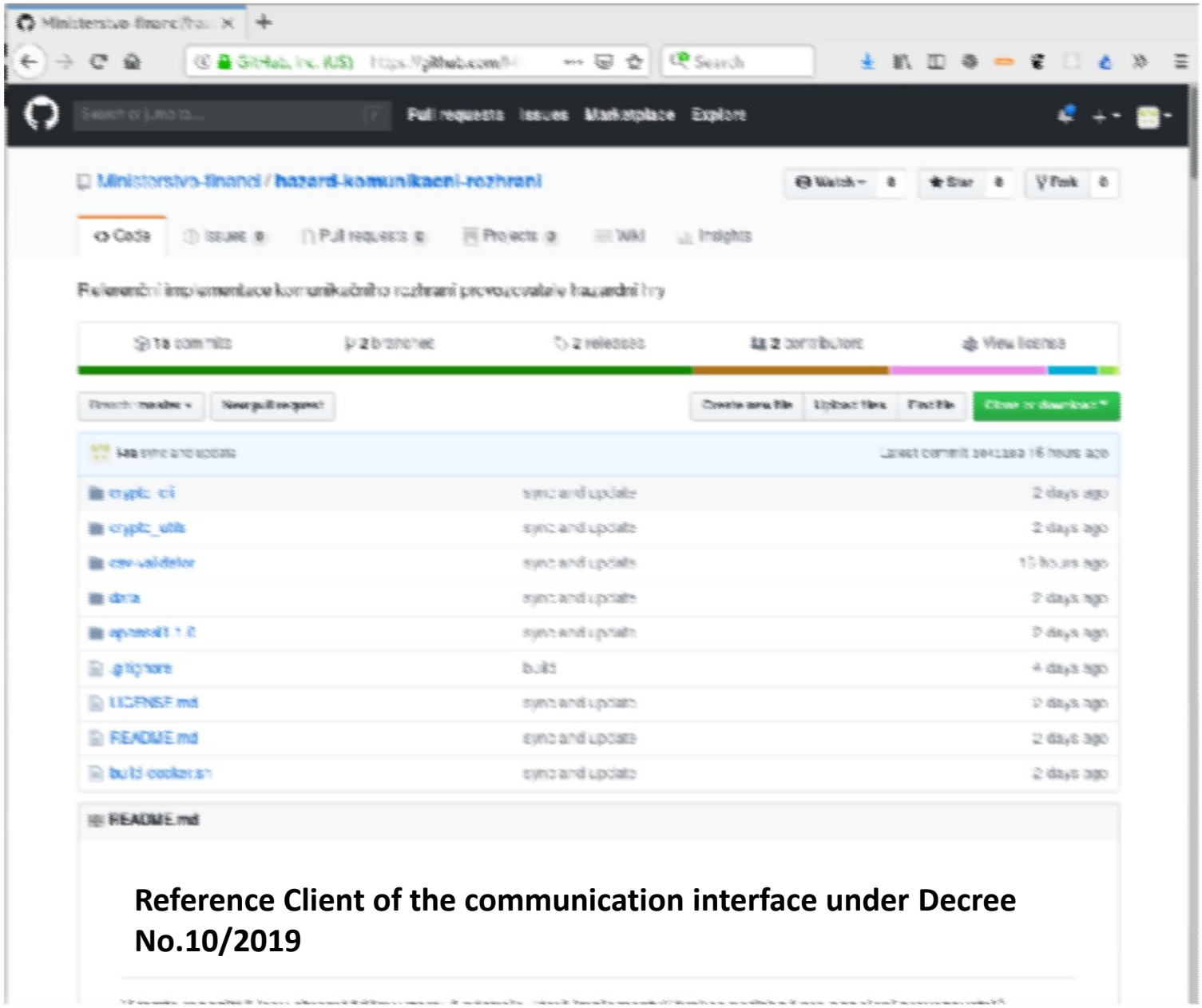
Steps on how to build tools from a source code

Assembled tools for Windows, Linux, MacOS X platforms

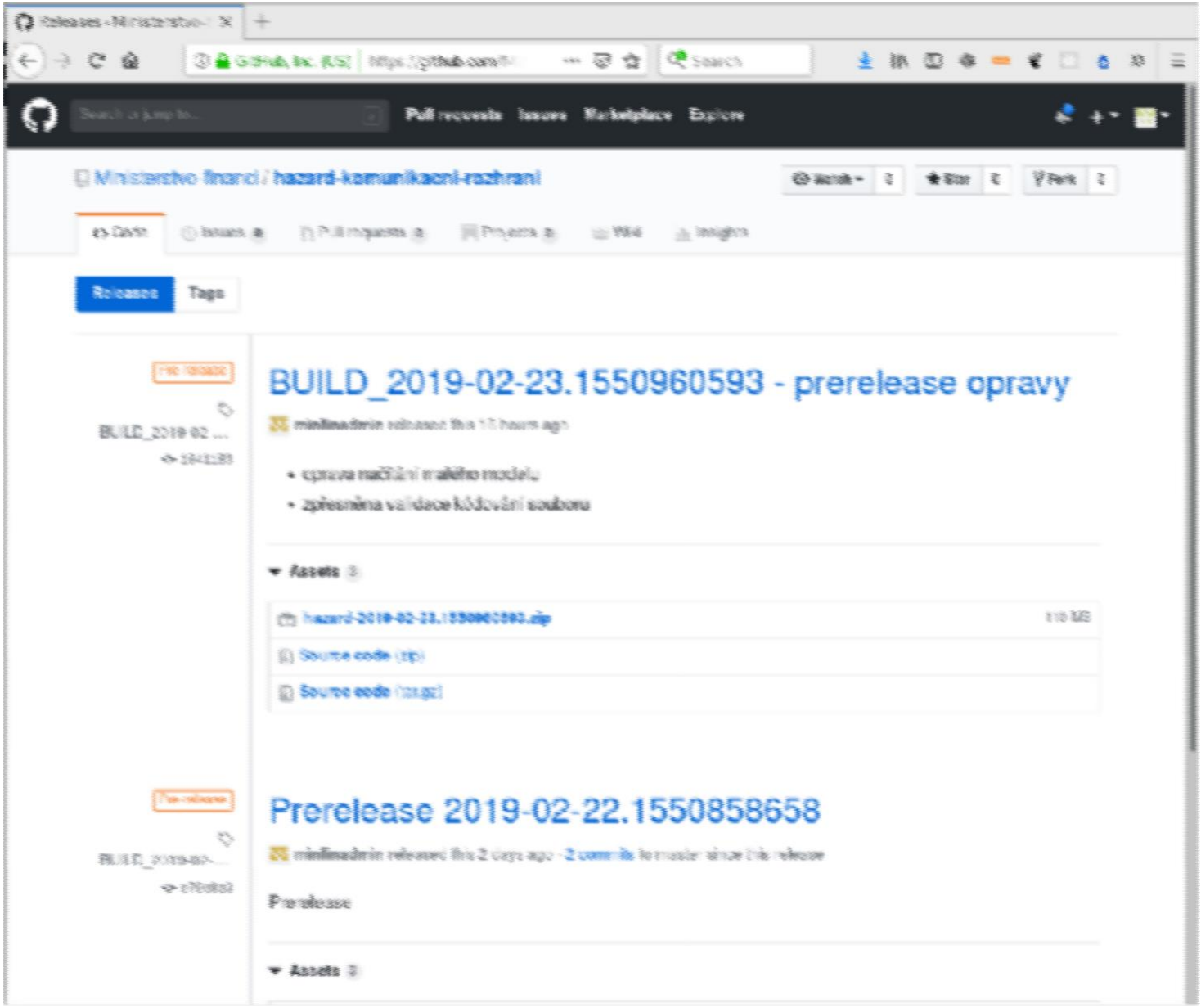
Documentation



REFERENCE CLIENT



REFERENCE CLIENT



REFERENCE CLIENT

crypto_utils

Java library
Creation and verification of the Recognized Electronic Seal (private key in PKCS12 file)
Validation of the certificate for the Recognized Electronic Seal
Encryption and decryption of CMS (private key in PEM file)

crypto_cli

crypto_utils function is accessible from the command line
validateFile.bat
signFile.bat
encryptFile.bat
decryptoFile.bat

PackageValidation.exe

.NET Core 2.2 executable file with source codes
It validates the basic structure of data packages
It checks what can be verified within one CSV line
It checks the contents of fields given the package (operator‘s ID, game type, times, etc.)

REFERENCE CLIENT

- Apache httpd 2.4 configuraction – being prepared
  - Sample configuration files with access control using TLS of a client‘s authentication
  - Dockerfile to start the server
  - Simple certification authority Easy RSA for basic management of certificates
  - PHP script for receiving processing notification
  - Example of generation of data for communication

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THANK YOU FOR YOUR ATTENTION

Martin Šabo, MoF

Petra Nespěšná, MoF

Jan Jiroušek, STCSS

Luděk Rašek, CGI