HELLENIC REPUBLIC

ΑΔΑ: ΨΡΠΟ46ΜΠ3Ζ-Τ4Ο

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POL 1024

To: List of Recipients

SUBJECT: "Supplementary technical specifications of communication and encryption protocol for the transmission of data to the FEM information system"

DECISION

THE GOVERNOR OF THE INDEPENDENT AUTHORITY FOR PUBLIC REVENUE

Considering:

1. The provisions of:

a) Articles 12 and 40 of Law 4308/2014 (A' 251) "Greek Accounting Standards, related regulations and other provisions.".

b) The Decision of the Governor of IAPR POL 1166/2018 (B' 3603) "Technical specifications of communication and encryption protocol for the transmission of data to the FEM information system".

c) The A.Y.O. POL.1220/2012 (B' 3517) "Codification – Completion of technical specifications of Fiscal Electronic Mechanisms and systems. Procedures for their use and operation. Specifications of files sent to GSIS".

d) The A.Y.O. POL 1221/2012 (B' 3513) "Upgrading of support software of the E.A.F.D.S.S. - Determination of sent data files of the tax data in GSIS, pursuant to the provisions of article 20 of Law 3842/2010 (Government Gazette 58/A/23.4.2010)"

e) The Decision SGPR POL 1068/1-4-2015 (B'497) "Procedures for the approval and revocation of FEMs. Obligations of holders of license of Fiscal Electronic Mechanisms (FEMs), sellers of FEMs, certified technicians of FEMs, holders - users of FEMs."

h) Chapter A "Establishment of an Independent Authority for Public Revenue " of Law 4389/2016 (A' 94) and in particular of Article 7, Paragraph 1 of Article 14 and Article 41 thereof.

i) The Decision Δ.ΟΡΓ. Α 1036960 ΕΞ 2017/10-03-2017 (Β΄ 968) of the Governor of the Independent Authority for Public Revenue "Organization of the Independent Authority for Public Revenue (IAPR)", as amended and in force.

2. Act No. 1/20.1.2016 (Y.O.D.D. 18) of the Council of Ministers "Selection and Appointment of Secretary General of the Secretariat General for Public Revenue of the Ministry of Finance" in conjunction with the provisions of the first paragraph of paragraph 10 of article 41 of Law 4389/2016 and the decision of the Minister of Finance No. 5294 ΕΞ 2020/17.1.2020 (Government Gazette 27 Y.O.D.D./17-1-2020) "Renewal of term of office of the Governor of IAPR"

3. The fact that, from the provisions of this decision, no expense is incurred against the Budget of the Independent Authority for Public Revenue (IAPR).

WE DECIDE

A. The definition of specifications of the communication and encryption protocol, in addition to those defined by POL 1166/2018 and which are applied on the one hand by the information system of FEM and on the other hand by FEMs that received approval with the provisions of the technical specifications of POL 1220/ 2012, and all EAFDSSs.

B. The definition of additional specifications for displaying QR codes on sales documents issued using FEM.

C. The definition of additional specifications for the process of placing new firmware on the FEMs.

D. The upgrade of the firmware of the existing active FEMs as well as the drivers of the existing active EAFDSSS so that they meet the specifications of this Decision.

Article 1. Communication period - Frequency of communication

The communication period is defined as the time interval between two consecutive data transmissions from the Fiscal Electronic Mechanism (FEM) to the Information System of the FEMSs of IAPR (ISFEM). Communication frequency is the number of messages per unit of time.

In order to control the number of FEM connections with ISFEM, information about the period/frequency of communication between FEM and ISFEM is added to each response of ISFEM. The communication frequency ranges from 0 to 1440. The following are indicative cases:

In case the communication period is 1, data is sent every 1 minute. The frequency in this case is 1440 shipments per 24 hours.

In case the communication period is 15, data is sent every 15 minutes. The frequency in this case is 96 shipments per 24 hours.

In case the communication period is 1440, data is sent every 1440 minutes (ie every 24 hours). The frequency in this case is 1 shipment per 24 hours.

Communication period 0 means that the transmission takes place only when Z is issued, i.e. as defined in POL 1166/2018.

The communication period (and therefore also the communication frequency) can be changed by ISFEM so that it is different for each FEM.

Article 2. Method of communication

2.1 FEM retains pending e.txts that have not been sent and sends them together at regular intervals (according to the communication period defined by ISFEM) as a grouped file (batch file) named of the corresponding daily _s.txt dispatch file, as defined in POL1220/2012, but completed with the extension _s.tmp (temporary).

2.2. The content of the above s.tmp file consists of the contents of the pending e.txt, similarly to the content of the corresponding daily s.txt, and of a new ASEDS d.tmp, in the calculation of which participate: the ASEDS d.txt of previous Z and the ASEDSs of the e.txt of the specific s.tmp. It is clarified that, for the sake of simplicity, for all s.tmp of the current Z, as the first component of the ASEDS calculation d.tmp is the d.txt of the previous Z.

2.3. The ASEDS d.tmp of a given s.tmp is not stored neither by ISFEM nor by FEM.

2.4. ISFEM reads the grouped file s.tmp and after verifying the correctness of d.tmp registers the e.txt files of the file s.tmp.

2.5. In the case where there is no pending receipt to be sent (e.txt) but the time period defined by ISFEM has passed, the s.tmp file is transmitted which contains only the ASEDS d.tmp and no e.txt file. Therefore, the FEM may send an s.tmp file which will not contain any e.txt line, but only a d.tmp line in order to simply receive information about a possible new communication period (frequency).

2.6. The sending of the grouped s.tmp file should be in accordance with what is described in POL 1166/2018 regarding encryption and the communication protocol with ISFEM. ISFEM does not accept absolutely any s.tmp sending, if the previous Z's s.txt has not been successfully transmitted. After the successful sending of the grouped s.tmp file, FEM has no obligation to keep this file.

2.7. ISFEM, in the response it sends to FEM regarding the receipt of the s.tmp file, mentions, among other things, the period of communication. If the FEM does not receive a success response for sending the s.tmp file (or if it does not receive a response at all), in the next grouped s.tmp file it is going to send, it also includes those e.txt that were not successfully transmitted from the previous one (or earlier) s.tmp file.

2.8. The daily s.txt file is sent as defined in POL 1166/2018 and ISFEM verifies the e.txt files it has received throughout the day and fills in any losses.

2.9. In every communication between FEM and ISFEM - regardless of whether there is an error or not - the header of the response of ISFEM always contains the following information: RepeatPostAfter: N where N is the integer that determines (in minutes of the hour) the communication period, i.e. the time interval for the next communication. The communication period is stored in each FEM in such a way that any disconnection from the electrical supply or closing of the FEM does not reset it, but instead its value is always kept equal to the one sent by the ISFEM.

In the event that no errors are detected, ISFEM responds with the indication OK (Latin characters), thus confirming the successful completion of the transmission of the s.txt or s.tmp file, as the case may be. In case there is an error, ISFEM responds with 3 fields, separated by a delimiter (;), of which the first is always the indication ERR, the second the error code according to the error table below, and the third a parameter for error explanation.

Error Table

Field 1	Field 2	Field 3

ERR	1 = Wrong S.TXT file name (eg not 31 characters, wrong parts of the name, etc).	
ERR	2 = Wrong S/N DT (e.g. it is not registered in the AADE database, the characters are not Latin, etc.).	
ERR	3 = This Z has already been submitted	N=Number of last Z submitted
ERR	4 = The previous Z is missing	N= Number of last Z submitted
ERR	5 = Possible encoding – encryption error	
ERR	6 = The signatures are not the same as those of d.txt or d.tmp	
ERR	7 = The data transmission is too fast. Please Repeat.	

The return of any error described in the above table by ISFEM fails the communication, making the transmission of the s.txt file or the s.tmp file unacceptable. Any other response (apart from the successful one) from ISFEM is also considered an error for an unknown reason (eg malfunction of some subsystem of ISFEM).

Article 3. QR CODE – Presentation of the document on mobile, tablet, PC.

To facilitate the check, the bar code at the end of the receipt - as described in POL1220/2012 - is replaced by a two-dimensional bar code (QR Code) with minimum dimensions of 18 mm x 18 mm. In the case of roll printers, the QR CODE must be printed at the end of the receipt or document so that there is no other text to the right or left of it. The QR CODE should also be generated by the systems that use EAFDSS, by the type A driver, or by the commercial management application that prints the documents, when a type B driver is used. The QR CODE can be ignored, as long as a printer is used without ability to print graphics (eg some types of dot matrix, some types of line printer, etc).

The content of the QR code is augmented with the ASEDS of the e.txt file of each receipt and with the URL of the control application in ISFEM, which is created as follows: URL of control application with the addition of URL parameter “SIG” with the following data: FEM Serial Number – 11 characters | Sales document Progressive serial number – 8 digits in the form 00000000 | SHA-1 signature of the corresponding e.txt - 40 hex characters | total value.

Example:

FEM Serial Number = GRT99000204

Sales Document progressive serial number=00000387
SHA-1 Signature = 0EA2C079E722C361C6297D10F02955CA413695A9

Amount= 18.35



QR Code message: https://www1.aade.gr/tameiakes/myweb/q1.php?
SIG=GRT990002040000003870EA2C079E722C361C6297D10F02955CA
413695A918.35

The use of the QR code is mandatory for all FEMs (ECRs, ADIMEs, EAFDSSs) with the aforementioned exception of the use of certain printers. An exception is also provided for those approved ECRs and ADIMEs where it is not possible to print a QR code, provided that the manufacturing company maintains an application on the Google Play Store and the Apple Appstore, for smartphones, reading the existing barcode and presenting the document on the smartphone screen of the concerned citizen.

Article 4. FEM firmware upgrade procedure

4.1. The FEM firmware is submitted to IAPR with its version number, the date it was created and the description of the changes it contains in relation to the previous version of the firmware of a specific type of FEM. In the event that the IAPR if deemed necessary, the firmware is checked by a competent FEM testing laboratory.

4.2. FEMs have the ability to display or print the version number and date of their firmware, to facilitate control. The manufacturer informs IAPR of the procedure required for the display or printing of these data and mentions it in the user manual.

4.3. The FEM firmware upgrade is allowed if the daily totals are zero, i.e. after issuing a daily Z report and only if the new firmware is of a newer version than the current one, and only after entering a special code of an authorized technician.

4.4. The upgrade can be done via an electronic storage medium (sd card, usb stick, etc.) that is connected to a suitable slot provided by the FEM, or by connecting the FEM to a PC through suitable software provided by the manufacturer.

4.5. The FEM manufacturer takes appropriate measures to ensure a complete and secure firmware upgrade and protection against any malicious interference.

4.6. At the end of the firmware upgrade process, the authorized technician updates the FEM Maintenance and Repair Booklet accordingly.

Article 5. Sanctions

Failure to comply with the provisions of this Decision constitutes a violation of the provisions of article 54 of Law 4174/2013.

Article 6. Other provisions and entry into force

6.1. The Table of Errors 1 of POL 1166/2018 is replaced by the Table of Errors of par. 2.9 of article 2.

6.2. From the entry into force of this, the FEM firmware upgrade procedure described in article 2.14.4 of Chapter 2 of POL 1220/2012 is abolished.

6.3. This Decision is valid after 4 months from its publication in the Government Gazette. This Decision be published in the Government Gazette.

The Governor of the Independent Authority for Public Revenue

Georgios Pitsilis