

*Lottery RT Specification*

Italian RT "Registratore Telematico" Fiscal Printer

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2	all	Draft => remove field COMUNE (City)	November the 4th2019	CR
3	All	Added Specs ID Code for lottery	November the 6th2019	CR
4	All	Add check digit algorithm	November the 6th2019	CR
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9	All	Extended 9218 and 1134 commands to RT Server and added tag for RT Server receipt	November the 27 <sup>th</sup>	CR
10	All	Added Z report field in the 1 134 command Updated the 1 138 command with right position of OUT OF SERVICE and new RECOVERY CERTIFICATE status	December the 12 <sup>th</sup>	CR
11	All	Added in the 1-134 answer the missing parameter Z rep Num	December the 27 <sup>th</sup>	CR
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14	All	Added lottery message setting and reading	February the 25 <sup>th</sup>	CR
15	All	Updated to the new lottery specs March the 6 <sup>th</sup> : A check Digit on lottery code not requested B Length of check digit is 8 char C Lottery information to customer printed at the bottom line is not requested	March the 8 <sup>th</sup>	CR
16	All	Added detailed description of the command 9-219 – index start from zero	March the 17th	CR
17	All	Removed duplication of content that can be found in Communication Protocol document. Document updated throughout.	28 <sup>th</sup> July 2020	PB

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## 1. INTRODUCTION

This document describes how to implement the national lottery function using Registratori Telematici (on line fiscal RT printers).

## 2. RELATIVE DOCUMENTS

- Communication Protocol version  $\geq 4.1x$

## 3. ABBREVIATIONS AND TERMINOLOGY DEFINITIONS

**EJ** Electronic Journal (DGFE) or Memoria di Dettaglio (MPD)

**FM** Fiscal Memory or Memoria Di Riepilogo (MPR)

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## 4. NEW LOTTERY RULES

With the introduction of the new Lottery receipt, information related to the receipt amount can be sent a specific Lottery Server which then converts this amount into a Virtual Lottery Ticket. Periodically the virtual ticket will participate in the National Lottery with the result made available on the Lottery Web Portal.

The **lottery government measure number is 739122/2019 and was published on October the 31<sup>st</sup> 2019** by the Italian Tax Authority. It defines the following main rules:

- It will be possible to participate in the national lottery from January 2021 using a Registratore Telematico (RT) printer.
- Retailers who are currently connected to the STS (Sistema Tessera Sanitaria) health system server (such as pharmacies) will also be able to participate from January 2021.
- Participants (shoppers) must first register on the Lottery web portal after which they will be given a unique lottery code to use with retailers. This is to avoid the use of an individual's private personal tax code (codice fiscale) every time they wish to participate in the National Lottery.
- The Registratore Telematico printer will store lottery requests in a special memory area and will transmit them to the Lottery server when one of the following conditions is true:
  - When the number of buffered requests equals 100 or
  - Whenever a Z report (fiscal daily closure) is performed.
- Each lottery participation request sent to the Lottery server will contain the following information:
  - Company / retailer name
  - Customer / participant lottery code
  - Receipt amount
  - Receipt payment method divided by cash and electronic format amounts
  - Receipt date and time
  - Receipt number
- In the case of a Refund or Void receipt, the following additional information that relates to the original lottery participation receipt has to be sent:
  - Receipt number
  - Receipt date and time
- The Registratore Telematico printer can only send data to the Lottery server if it is in service (In Servizio state / on Line mode).
- More detailed definitions relating to the IN SERVIZIO state will be implemented:
  - The RT is considered In Servizio following at least one Z report sent to the Tax Authority.
  - Following any change of RT State, a Z report must be performed before sending Lottery data.
- The Lottery server can reject Lottery request files partially or fully. The response will be saved in the RT printer for analysis by an operator or retail application.

### Extract of government measure (DECRETO-LEGGE) n. 124 dated 26th October 2019

Article 19: In the case of electronic payments, the chance of winning during a Lottery draw will be greater. This is to encourage traceable payments. The total budget for this additional Lottery enhancement dedicated to electronic payments is 45 Million Euros for 2021.

**Example of a Lottery Receipt**

Ottica "Vedo Bene" di  
 ESPOSITO GENNARO  
 P.I. 12345678903  
 Via dei Pini, 3  
 Pozzuoli (NA), 80078

**DOCUMENTO COMMERCIALE**  
**di vendita o prestazione**

DESCRIZIONE	IVA	Prezzo(€)
Prodotto "A"	22%	160,65
Sconto	22%	-10,65
Prodotto "B"	4%	50,00
n.5 * 10,00		
Prodotto "C"	ES*	100,00
Subtotale		300,00
<b>TOTALE COMPLESSIVO</b>		<b>300,00</b>
<b>DI CUI IVA</b>		<b>35,00</b>
Pagamento contante		210,00
Pagamento elettronico		100,00
Non riscosso		0,00
Resto		10,00
Importo pagato		300,00

\*ES = Esente

14-12-2016 12:54  
 DOCUMENTO N. 0002-0110

Codice Lotteria: ABCD1234X

RT 25IAT123456

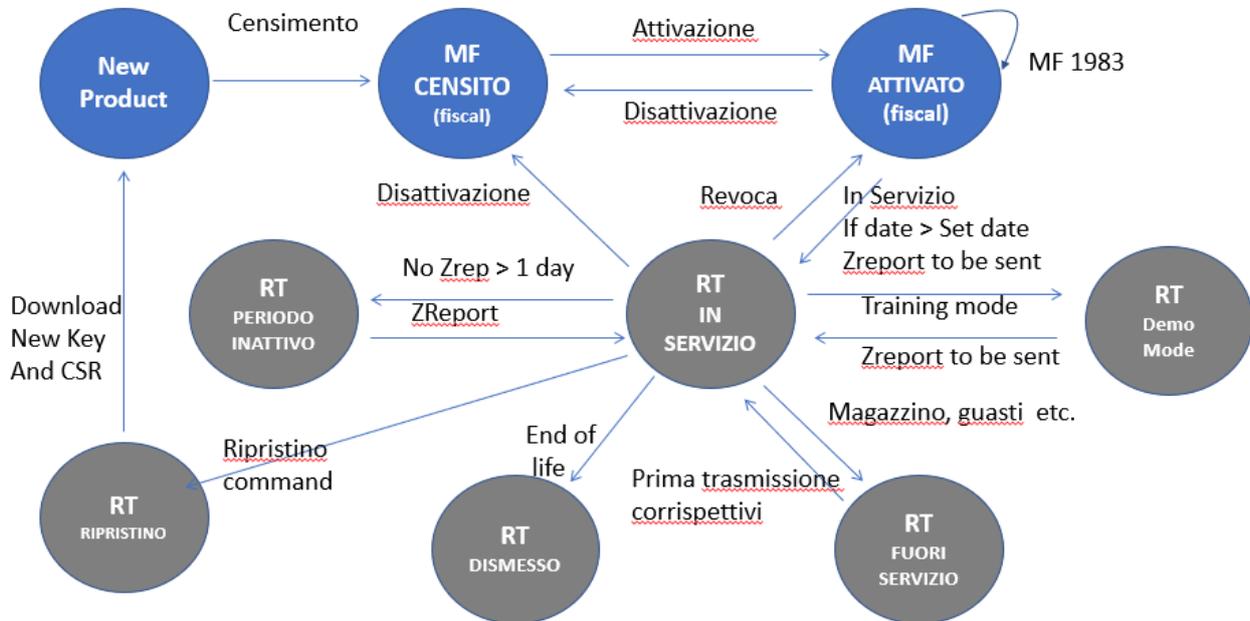
questo documento commerciale partecipa alla  
 lotteria: puoi controllare a questo indirizzo internet  
 xxxxxxx le informazioni sulle estrazioni

Arrivederci e Grazie!

Personal Lottery code, command: 1-135

## 5. NEW PRINTER STATES

To participate in the national lottery, the printer status must be IN SERVIZIO (online).



RT State	Description	Document Types
NEW PRODUCT	Printer needs to be registered (CENSITA)	Non-fiscal receipts
CENSITO	Printer needs to be activated (ATTIVATA)	Fiscal receipts
ATTIVATA	Printer works in MF mode (1983 law)	Fiscal receipts
IN SERVIZIO	Printer works in RT mode (2015 law)	Commercial documents
PERIODO INATTIVO	Following more than one day without a Z report.	No documents can be printed. A Z report must be performed.
FUORI SERVIZIO	Out of service	A Z report will restore operation.
DISMESSO	End of Life	Decommissioning at the end of its life as an RT printer.
RT DEMO MODE	Used to test the printer	Commercial document with all spaces replaced with question marks (?????)

Using the 1-138 RT Status command it is possible to verify the status of the printer. See Communication Protocol document.

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## 6. NEW AND UPDATED PRINTER COMMANDS

The following new protocol commands have been implemented to manage the new lottery function:

- 1-134 – Read Lottery Queue and Transmission Status.
- 1-135 – Send Lottery Personal ID Code.
- 9-019 – Set Lottery Message (for automatic printing of up to five static lines). By default no message is present.
- 9-218 – Search and Read Lottery Receipt Status.
- 9-219 – Read Lottery Message (previously programmed with 9-019 command).

In addition, the following existing protocol commands have been extended or modified:

- 4-014 – New flag 67 to activate or deactivate Lottery checksum verification.
- 4-015 – New sub-parameter 26 to indicate which retail header line to use in transmissions (should be the company name (Ragione Sociale)).
- 9-016 – Move rejected files to archive folder. New field to indicate which type of data to archive (Z reports or Lottery).
- 9-020 – Export command where Lottery data can be specified (as of July 2020 this command is not yet available).

Please refer to the Communication Protocol document for details of the above commands. However, some additional information can be found below.

### 6.1. Send Lottery Personal ID Code

Length is eight characters with the check digit. The printer is able to accept codes with a length from two to 15 characters plus check digit (16 character field). The check digit verification can be enabled via the SET 14/67 LOTTERY CKS flag. To program it via the keyboard:

- Enter the 3333 --> Chiave --> 14 --> 67 sequence.
- Alter the setting using the X key (toggle action).
- Press Contante to confirm.
- Press Subtotal if you would like a summary print-out.
- Press Chiave to exit.

The verification is however not currently requested by the Tax Authority.

1-135 command string example:

```
12345678901234567890
Example: 113501ABCDEFGN      0000
```

Pad with spaces to make the code field always 16 characters.

---

## 6.2. Lottery Code Check Digit ID

According to the specification released on 6<sup>th</sup> March 2020, the check digit is no longer required. It can be considered for future use. It is possible to enable the check digit function as indicated above. The default is OFF.

As of the July 2020, the check digit algorithm has not been officially defined yet. The current algorithm description with example can be found in the Communication Protocol document in the 1-135 command section. If a future algorithm is different, it will be necessary to disable the check digit control as indicated above.

## 6.3. Search and Read Lottery Receipt Status.

See Communication Protocol document 9-218 command. In the case of erroneous receipt searches, the return results can be used to determine the start point of any subsequent search.

## 6.4. printRecLotteryID

Only relevant for RT Server. Equivalent to 1-135 command used for sending the participant's personal Lottery identification code. Can be sent once per fiscal receipt.

- `<printRecLotteryID lotteryID="" />`

where:

- **lotteryID** indicates the code string representing the Lottery ID including any check digit.

## 6.6. Set Header Line Number with Company Name

Within Lottery receipt Tax Authority transmissions, the retailer company name (Ragione Sociale Esercente) where the RT printer is located must be specified. This is performed automatically by the printer using information that should be present in the fixed retail header lines. However, since each retailer decides the format and arrangement of these lines, the relative line number that has the company line must be specified using the 4-015 sub-parameter 26 (RIGA DENOM. LOTTERIA). The default is line 1. To program via the keyboard:

- Enter the 3333 --> Chiave --> 15 sequence.
- Press Contante 25 times.
- Enter the desire retail header line number from 1 to 16.
- Press Contante to confirm.
- Press Subtotal if you would like a summary print-out.
- Press Chiave to exit.

Any spaces before or after the line wording (for centring) are trimmed in the XML transmission file.

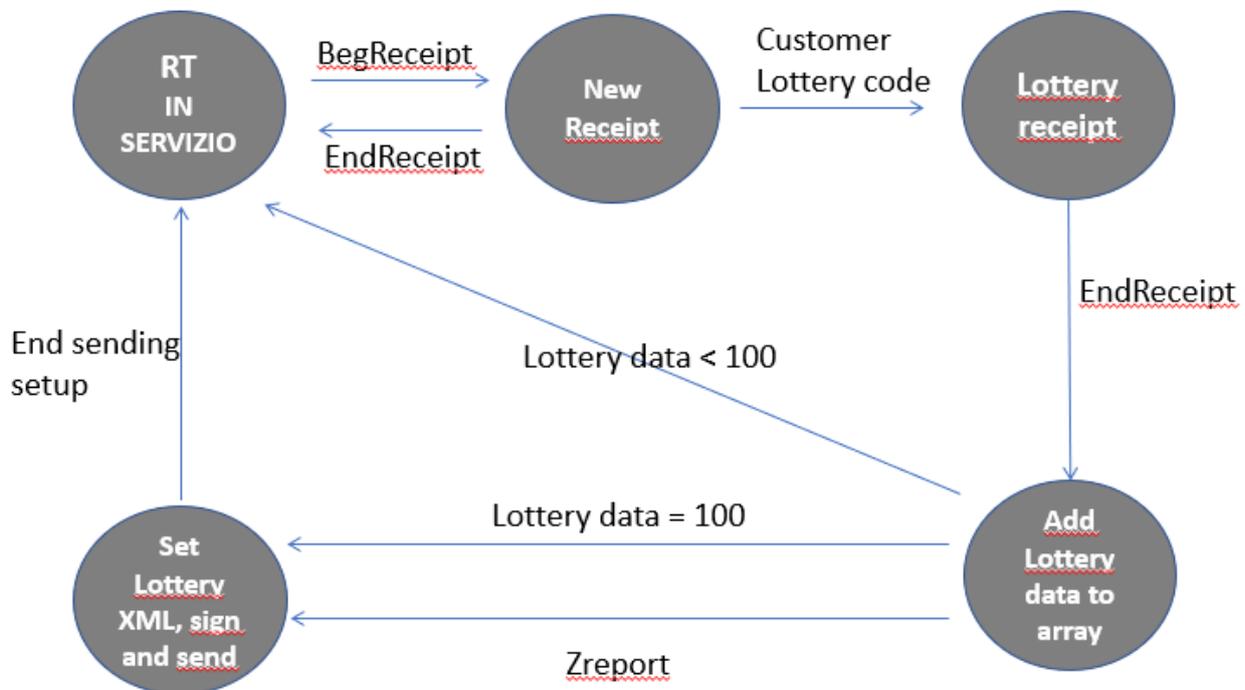
## 7. HOW TO PRINT OUT A LOTTERY RECEIPT

Check that the printer is in the IN SERVIZIO state. If the printer is OUT OF ORDER (Fuori Servizio) or it is the first day after having switched from MF to RT mode, check that there are no XML files in the queue.

The following sequence of commands can be used to print out a lottery receipt:

- 1-085 – BeginFiscalReceipt
- 1-080 – PrintRecItem
- 1-135 – Direct IO (personal Lottery ID code)
- 1-084 – PrintRecTotal (payment type)
- 1-087 – EndFiscalReceipt

The RT Printer stores the lottery receipt in a special buffer. The lottery file will be sent according to rules defined by the Tax Authority.



## 8. HOW TO MANAGE REFUND AND VOID LOTTERY RECEIPTS

To print out a lottery Refund/Void receipt the sequence of the commands are as follows:

- 1-078 – PrintRecMessage (VOID/REFUND text)
- 1-085 – BeginFiscalReceipt
- 1-081 – PrintRecRefund or 1-080 PrintRecItem (depending on SET 14/58 and 29 flag settings)
- 1-135 – Direct IO (personal Lottery ID code)
- 1-084 – PrintRecTotal
- 1-087 – EndFiscalReceipt

The Lottery ID code must only be sent if the original sales receipt is not found in the RT printers' EJ (performed in another shop for example). If the original receipt is found in the EJ, the RT uses the Lottery ID code from the original receipt.

## 9. TO PRINT OUT A LOTTERY RECEIPT USING THE KEYBOARD

- Assign the Lottery Code / Personal Tax Code / VAT number multi-use function (number 137) to a key using the SET 29 keyboard setting function. Try to avoid reassigning the Storno or Void keys as these can be used by the operator to respectively clear the code or move the cursor back.
- Press your chosen function 137 assigned key.
- Choose LOTTERIA / C.F. option (should be the first presented). If not, press your chosen function 137 assigned key until the wording appears.
- Start entering the Lottery code immediately (no need to press Contante or any other key first). Use the keyboard in a manner similar to legacy mobile phone SMS text messages. The fiscal firmware automatically assumes Lottery codes if the length is < 16 otherwise it assumes a Personal Tax Code (Codice Fiscale).
- Press your chosen function 137 assigned key.
- Perform sales etc.
- Close with payment.

## 10. HOW TO VERIFY TRASMISSION

The new 9-218 command can be used to verify the outcome of lottery file transmissions.

In case of error regarding the XML file sent to the Tax Authority, the reply is saved in the Lottery rejected folder. Depending on the error code, it should be possible to understand the reason why the Tax Authority rejected the receipt.

The Tax Authority has defined three error levels:

1. TEMPORARY
2. WARNING
3. BLOCKED

1. TEMPORARY: The RT printer will try to resend the lottery receipt at the interval programmed in SET 15 / 23 (default every 30 minutes).
2. WARNING: Depends on the error – Awaiting Tax Authority specification.
3. BLOCKED: A technical person is required to resolve the issue.

The following table lists the possible error codes:

Codice	Descrizione	Tipologia	Ambito
00000	XML non conforme al tracciato	Bloccante	RT, MC
00300	Superata la soglia massima di elementi nel tracciato XML	Bloccante	RT, MC
00301	Vincoli dimensionali del file XML superati	Bloccante	RT, MC
00302	Servizio momentaneamente non disponibile	Temporaneo	RT, MC
00303	Dispositivo non 'IN SERVIZIO'	Bloccante	RT, MC
00304	Certificato non valido	Bloccante	RT, MC
00305	La tipologia del dispositivo non è valida	Bloccante	RT, MC
00306	File Trasmesso duplicato	Bloccante	RT, MC
00307	La data del documento commerciale è nel futuro	Warning	RT, MC
00308	Dati di pagamento non congruenti	Warning	RT, MC
00309	Superato il numero massimo di chiamate nell'unità di tempo	Temporaneo	RT, MC
99999	XML con Firma non integra	Bloccante	RT, MC

## 10.1. Lottery Report Print-out

The result of Lottery receipt transmissions in a certain period can be printed out using the keyboard by carrying out the following steps:

- Assign function number 137 to a key using the SET 29 keyboard setting function.
- From the "Stato Registrazione" state enter the 2222 → Chiave → 99 sequence.
- Enter the starting and ending dates.
- Press the key associated with function 137.
- Press Chiave to exit.

The printer prints out a report.

Every single file name has the following structure:

### TX:

<S/N>-<date>-<Z rep num>-<First rec>-<Last rec>-<Lottery rec count >-LOTTERIA.xml

### RX:

<S/N>-<date>-<Z rep num>-<First rec>-<Last rec>-<Lottery rec count>-LOTTERIAESITO-<Lottery result>->Lottery ID>

### Example

99MEY123456-20191113T171233-Z0091-I0011-F0022-L0007-LOTTERIA.xml

99MEY123456-20191113T171233-Z0091-I0011-F0022-L0007-LOTTERIAESITO-AC-ea7ad092-8483-48ed-94a2-26949551d24b.xml

99MEY123456	Fiscal serial number
20191113T171233	Date and time when the XML file was saved
Z0091	Z report number
I0011	First lottery receipt number
F0022	Last lottery receipt number
L0007	Number of lottery receipts
AC / SE / SC	Tax Authority reply

**Example of a lottery report print out****DOCUMENTO GESTIONALE**

Memoria Permanente di Dettaglio - DGFE

14-11-2019 16:27

99MEY123456

TRASMISSIONE LOTTERIA

DAL 13-11-2019

AL 15-11-2019

**13-11-2019**99MEY123456-20191113T171233-Z0091-I0011-F0022-L0005-**LOTTERIA.xml**99MEY123456-20191113T171233-Z0091-I0011-F0022-L0005-**LOTTERIAESITO-AC**-ea7ad092-8483-48ed-94a2-26949551d24b.xml**Z0091 Documenti AC:**0011 0012 0015 0021 0022  
-----**14-11-2019**99MEY123456-20191114T181233-Z0092-I0001-F0044-L0007-**LOTTERIA.xml**99MEY123456-20191114T181233-Z0092-I0001-F0044-L0007-**LOTTERIAESITO-SE**-esdfw6g-1234-4567-94a2-26949551d24b.xml**Z0092 Documenti AC:**0001 0002 0003 0004 0005  
-----**Z0092 Documenti Rifiutati SE:**

0006 0009

**15-11-2019**99MEY123456-20191115T191233-Z0093-I0001-F0005-L0003-**LOTTERIA.xml**99MEY123456-20191115T191233-Z0093-I0001-F0005-L0003-**LOTTERIAESITO-SC**-ea7ad092-8483-48ed-94a2-26949551d24b.xml**Z0093 documenti SCARTATI SC:**

0001 0002 0003

DOCUMENTI DA INVIARE

**Z0094:**

0001 0004 0005

## 10.2. Export Lottery File to SD Card

The export function of Revenue file also includes lottery receipts.

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# 11. HOW TO DOWNLOAD LOTTERY XML FILE AND SEND MANUALLY

The XML file in the queue that is ready to be sent to the Tax Authority can be downloaded using a browser or can be exported to a USB pen drive.

## Index of /www/dati-rt/

← → ↻ Non sicuro | 192.168.0.2/www/

### Index of /www/

Name	Modified	Size
<a href="#">dati-rt/</a>	08-Mar-2020 12:15	[DIRECTORY]
<a href="#">graphic/</a>	08-Mar-2020 18:13	[DIRECTORY]
<a href="#">json_files/</a>	08-Mar-2020 18:13	[DIRECTORY]
<a href="#">libretto_elettronico/</a>	08-Mar-2020 18:13	[DIRECTORY]
<a href="#">logs/</a>	08-Mar-2020 18:13	[DIRECTORY]
<a href="#">printer_status/</a>	08-Mar-2020 18:13	[DIRECTORY]
<a href="#">rrj_config/</a>	08-Mar-2020 18:13	[DIRECTORY]
<a href="#">webapp/</a>	08-Mar-2020 18:13	[DIRECTORY]

Name	Modified	Size
<a href="#">20200301/</a>	08-Mar-2020 18:15	[DIRECTORY]
<a href="#">20200302/</a>	08-Mar-2020 18:15	[DIRECTORY]
<a href="#">20200308/</a>	08-Mar-2020 18:33	[DIRECTORY]
<a href="#">da-inviare/</a>	08-Mar-2020 18:33	[DIRECTORY]
<a href="#">demo/</a>	01-Mar-2020 18:15	[DIRECTORY]
<a href="#">lost+found/</a>	01-Jan-2017 00:58	[DIRECTORY]
<a href="#">lotteria/</a>	08-Mar-2020 18:15	[DIRECTORY]
<a href="#">private/</a>	01-Mar-2020 18:15	[DIRECTORY]
<a href="#">results/</a>	08-Mar-2020 18:33	[DIRECTORY]
<a href="#">rifiutati/</a>	01-Mar-2020 18:15	[DIRECTORY]
<a href="#">rifiutati-archivio/</a>	01-Mar-2020 18:15	[DIRECTORY]
<a href="#">tmp/</a>	08-Mar-2020 18:33	[DIRECTORY]

### Index of /www/dati-rt/lotteria/

Name	Modified	Size
<a href="#">20200308/</a>	08-Mar-2020 18:33	[DIRECTORY]
<a href="#">da-inviare/</a>	08-Mar-2020 18:33	[DIRECTORY]
<a href="#">results/</a>	01-Mar-2020 18:15	[DIRECTORY]
<a href="#">rifiutati/</a>	01-Mar-2020 18:15	[DIRECTORY]
<a href="#">rifiutati-archivio/</a>	01-Mar-2020 18:15	[DIRECTORY]

### Index of /www/dati-rt/lotteria/20200308/

Name	Modified	Size
<a href="#">99MEX000259-20200308T181205-Z0082-I0002-F0016-L0004-LOTTERIA.xml</a>	08-Mar-2020 18:12	4.2k
<a href="#">99MEX000259-20200308T181205-Z0082-I0002-F0016-L0004-LOTTERIAESITO-AC-2e2077ae-4145-47ba-89fe-06a69ab5a2e5.xml</a>	08-Mar-2020 18:15	3.4k
<a href="#">99MEX000259-20200308T183146-Z0084-I0001-F0002-L0002-LOTTERIA.xml</a>	08-Mar-2020 18:31	3.7k
<a href="#">99MEX000259-20200308T183146-Z0084-I0001-F0002-L0002-LOTTERIAESITO-AC-1cfaff5f-97aa-4dfa-b78e-9a6813008dc6.xml</a>	08-Mar-2020 18:31	3.4k
<a href="#">99MEX000259-20200308T183257-Z0085-I0001-F0002-L0002-LOTTERIA.xml</a>	08-Mar-2020 18:32	3.7k
<a href="#">99MEX000259-20200308T183257-Z0085-I0001-F0002-L0002-LOTTERIAESITO-AC-2923e7d8-5bf1-4dd6-8ec6-ad58b2815892.xml</a>	08-Mar-2020 18:33	3.4k

## Example of an XML lottery file sent to the Tax Authority

```

<r:DocCommercialiLotteria xmlns:r="http://ivaservizi.agenziaentrate.gov.it/docs/
xsd/doccommercialilotteria/v1.0" versione="1.0">
<DatiTrasmissione>
<Formato>DCL10</Formato>
<Denominazione> CCCCCCCCCC </Denominazione>      => Based on the line number indicated in
4-015 / 26 command
</DatiTrasmissione>
<DocumentoCommerciale>
<IdCliente>AAAAAAAA</IdCliente>      => Lottery code sent with 1-135 command
<DataOra>2020-03-08T18:32:50</DataOra>
<NumeroProgressivo>0085-0001</NumeroProgressivo>
<Ammontare>1.00</Ammontare>
<Vendita>
<DatiPagamento>
<Tipo>PC</Tipo>
<Importo>1.00</Importo>
</DatiPagamento>
</Vendita>
</DocumentoCommerciale>
<DocumentoCommerciale>
<IdCliente>AAAAAAAA</IdCliente>      => Lottery code sent with 1-135 command
<DataOra>2020-03-08T18:32:53</DataOra>
<NumeroProgressivo>0085-0002</NumeroProgressivo>
<Ammontare>1.00</Ammontare>
<Vendita>
<DatiPagamento>
<Tipo>PC</Tipo>      => Cash payment
<Importo>1.00</Importo>
</DatiPagamento>
</Vendita>
</DocumentoCommerciale>
<Signature xmlns="http://www.w3.org/2000/09/xmldsig#">...</Signature>
</r:DocCommercialiLotteria>

```

## Tax Authority reply

```

<ns2:DocCommercialiLotteriaEsito xmlns:ns2="http://ivaservizi.agenziaentrate.gov
.it/docs/xsd/doccommercialilotteria/esito/v1.0">
<IdOperazione>2923e7d8-5bf1-4dd6-8ec6-ad58b2815892</IdOperazione>
<DataOra>2020-03-08T18:35:15</DataOra>
<NumElementi>2</NumElementi>
<Esito>AC</Esito>      => Positive result
<SegnalazioniDocComm/>
<Signature xmlns="http://www.w3.org/2000/09/xmldsig#">
<SignedInfo>
<CanonicalizationMethod Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-
20010315"/>
<SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-sha256"/>
<Reference URI="">
<Transforms>
<Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"/>
<Transform Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"/>
</Transforms>
<DigestMethod Algorithm="http://www.w3.org/2001/04/xmenc#sha256"/>
<DigestValue>k95hUC8ctn5vVWmrb2akqKxjmytOn4KruEJXdnJlpYY=</DigestValue>
</Reference>
</SignedInfo>
<SignatureValue>...</SignatureValue>
<KeyInfo>...</KeyInfo>

```

---

</Signature>  
</ns2:DocCommercialiLotteriaEsito>

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## Example of a lottery report



## 12. HOW TO CHECK EJ SIZE

See 1-136 command in Communication Protocol document.

### 13. HOW TO TEST THE LOTTERY FUNCTION

Depending on the model and version of fiscal firmware, it may be necessary to activate the Simulation (Simulazione) mode in order to test the Lottery function. Please contact Epson for confirmation. In this case, receipts are printed with question marks (??) in place of spaces to render them unusable in a retail outlet. To enter or exit Simulation mode, a mandatory Z report must first be performed. To program it via the keyboard:

- Enter the 3333 --> Chiave --> 14 --> 62 sequence.
- Alter the setting using the X key (toggle action).
- Press Contante to confirm.
- Press Subtotal if you would like a summary print-out.
- Press Chiave to exit.

### 14. HOW TO UPGRADE THE PRINTER TO LOTTERY FIRMWARE

The upgrade of the firmware can be performed locally or remotely. If the firmware version of the printer is greater than **7.xx**, it is possible to upgrade the firmware without removing the fiscal seal.

For more details, please contact Epson ([fiscal\\_pos@epson.it](mailto:fiscal_pos@epson.it))