The full data fields of imprint cliché are described in the following table, only fields with include=yes are to be returned to ASUFM in Franking Transaction messages (basically all the fields excluding pads and digital signature):

| **No.** | **Description of field** | **Type** | **Field**  **width** | **Byte\*** | **Fill** | **Value to be coded** | **Note** | **Data Origin** | **Include** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Prefix | ANNA | 4 | 3 | Mandatory | !45! | Prefix of DM belonging to franking system | Fixed | Yes |
|  | Version of code | NN | 2 | 1 | Mandatory | 01 | The number of version is shown, related to the Code fields structure (here 01, first release ) | Fixed | Yes |
|  | Manufacturer code | AA | 2 | 2 | Mandatory | A predefined value according to the manufacturer’s name | Ex: XY | Fixed on FM | Yes |
|  | Country code (Russian Federation) | NNN | 3 | 1,5 | Mandatory | Three-digit value in compliance with the international standard rules “ISO 3166-1 number” -English name of countries and their code values” | Shall be  <<643>>  RUS | Fixed | Yes |
|  | Acceptance Post Office unique ID  (Postal Code) | NNN  NNN | 6 | 3 | Mandatory | Unique ID of post office where the franking machine is currently working, corresponding to the Post Code | Shall be a 6-digit number, thus encoding a maximum of 999.999 post offices | Assigned on ASUFM by  Russian Post | Yes |
|  | Date of franking | NNN  NNN | 6 | 3 | Mandatory | Six-digit date of franking of mail items | Format (DDMMYY) | Assigned by PO/FM vendor system | Yes |
|  | Registration number of SMPC of FM | NNN  NNN | 6 | 3 | Mandatory | Registration number of SMPC of franking machine |  | Assigned by ASUFM (during installation phase) | Yes |
|  | Value of register “Total” before franking | NNNN  NNNN | 8 | 4 | Mandatory | Value of register “Total piece count” at the moment of applying the imprint of franking machine | Value 0 is allowed | FM internal register | Yes |
|  | Postage | NNNN  NNN | 7 | 3,5 | Mandatory | Cost of sending a mail item, which is determined according to the current tariff of delivery of a mail item. The amount is expressed in kopecks. | Value 0 is allowed | Calculated by FM according to Rate Table | Yes |
|  | Product code | NNNN | 4 | 2 | Mandatory | Value in compliance in correspondence of the product type in the rates table |  | Set on FM before franking phase  Value present into Rate Table | Yes |
|  | Weight | NNNN | 4 | 2 | Mandatory | Actual weight value (in grams) measured or declared by FM operator. Value used by the FM to identify the correct postage into rate table. |  | Set by FM operator or by scales | Yes |
|  | Customer’s unique Id (code) | NNNN  NNNN | 8 | 4 | Mandatory | Value determined by the software of the Center when the Customer’s identification details are entered into the database of the Center | 8- digit number | Assigned by ASUFM | Yes |
|  | Key revision | NNNN | 4 | 2 | Mandatory | Meter signing key revision |  |  | No |
|  |  | 2 bytes | Switch to encode binary bytes | 2 |  |  | 1 switch to base256 command byte 231 (=0xE7) + 1 byte for (randomized) length declaration  (#) |  |  |
|  | Electronic validation | 48 bytes | Binary content | 48 | Mandatory | Message authentication code  The Electronic Validartion is compound of two integers (r,s) of 24 bytes each, the representation is Big Endian. | Asymmetric ECDSA P192 algorithm will be used for message authenticity.  The data for fields 2-13  are covered by the signature. |  | No |

**Case ECDSA - P160**

Data Matrix Structure, for ECDSA P160 is different only in the Electronic Validation filed.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***…*** | **...** | **...** | **...** | **...** | **...** | **…** | **…** | **…** |  |
|  | Electronic Validation | 42 bytes | Binary content | 42 | Mandatory | Message authentication code  The Electronic Validartion is compound of two integers (r,s) of 20 bytes each, the representation is Big Endian  A Byte (‘00’) is placed before each integer. | Asymmetric ECDSA P160 algorithm will be used for message authenticity.  The data for fields 2-13  are covered by the signature. |  | No |