

POS emulator

Ver.2.0 2020-02-07

Revisions

Ver.	Date	Authors	Description
1.0	2019-02-12	ab	Initial release
1.1	2019-06-07	ph	CustomerReceipt, MerchantReceipt
1.2	2019-06-10	ph	Optional field "Control"
1.3	2019-07-16	ph	Optional field "InvNumber"
1.4	2019-09-10	ph	Optional field "CurrencyCode"
1.5	2019-09-17	ph	New card fields in response, Optional field "HostTransID"
1.6	2019-10-21	ph	Pre-authorisation
1.7	2019-11-08	ph	Pre-authorisation additional info
1.8	2019-11-15	vc	New operation: Token-request
1.9	2019-12-18	vc	Example for "CU" operation added
2.0	2020-02-07	ph	Multi host receipts , Check line

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2 Introduction

Document describes POS emulator used for ECR development on Android. Emulator substitutes real Payment application and can emulate all response types.

3 Integration

ECR application can start Payment Application or Emulator using 'Intent'. All input and output parameters are in JSON string.

3.1 Usage

3.1.1 Request

```
Intent intent = new Intent();
intent.setComponent(new ComponentName("sk.co.kompakts.postterminal",
"sk.co.kompakts.postterminal.MainActivity"));
JSONObject jReq = new JSONObject();
String sReq="";
try {
    jReq.put("Amount", <Amount>);
    jReq.put("Operation", <Operation>);
    //optionally "Control"
    //optionally "InvNumber"
    //optionally "CurrencyCode"
    jReq.put("TransactionID", <can be generated e.g.getRandom()>);
    sReq = jReq.toString();
} catch (JSONException e) {
    e.printStackTrace();
}
if(sReq.isEmpty()) return;
intent.putExtra("POS_EMULATOR_EXTRA", sReq);
try {
    startActivityForResult(intent, <requestCode>);
}
catch (Exception e){
    Log.d(TAG, "Exception:" + e.getMessage());
}
```

Component name for Emulator is "sk.kompakts.emulator"

Component name for Real POS application is "sk.co.kompakts.postterminal"

Allowed operation:

Code	Operation
CP	Payment

CC	Cancel (last transaction)
CR	Refund
CT	Totals
CS	Subtotals
CL	Check line (check connectivity with host)
CA	Pre-authorisation
CF	Pre-authorisation completion
CI*	Incremental pre-authorisation
CU*	Transaction Cancelation (any transaction)
TR	Token request

*) host specific operation. It is supported by specific authorisation host ONLY!

Mandatory fields:

Operation	Fields
CP	Operation , Amount , TransactionID
CC	Operation , TransactionID , HostTransID
CR	Operation , Amount , TransactionID
CT	Operation , TransactionID
CS	Operation , TransactionID
CA	Operation , Amount , TransactionID
TR	Operation , RegionID

Field **TransactionID** is used for pairing request and response. Terminal saves last 10 responses by **TransactionID**. If request contains known **TransactionID** , terminal answers immediately without any communication with authorization host.

3.1.2 Host specific fields

Some authorisation host requires specific fields for special operation such as CF, CI, CU.

Host GP SK Mandatory fields:

Operation	Fields
CF, CI, CU	Operation, Amount, TransactionID, HostTransID, TerminalID, Last4PANnumber, SequenceNumber, OriginalDate

Format of **OriginalDate** is YYMMDD.

Last4PANnumber is sent in **MaskedPAN**.

3.1.3 Optional request fields

3.1.3.1 Control

Request can contain optional field “**Control**”. It is bitwise oriented integer. Each bit controls a specific feature.

bit	Meaning
-----	---------

0x01	Signature checking is performed on POS
0x02	POS terminal prints receipt
0x08	POS terminal DOES NOT send receipt data in response

Samples:

0x00 - default => POS terminal doesn't print receipt. POS terminal sends receipt in response. Signature checking is performed on the ECR side.

0x0A (0x02 + 0x08) => POS terminal prints a receipt and DOES NOT send receipt data in response

3.1.3.2 InvNumber

Invoice number, also called variable symbol, is an optional field , which is sent to the authorization host and printed on receipt. Depending on the authorization server it can be present in monthly / weekly bank reports.

3.1.3.3 CurrencyCode

Currency numeric code according to ISO 4217 (Eur = 978, USD = 840, CZK = 203). If request DOES NOT contain CurrencyCode, the terminal uses default code. If the terminal has more currency codes , then the first currency will be used.

3.1.4 Response

Response is handled by onActivityResult callback function.

```
@Override
protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
    if (resultCode == Activity.RESULT_OK) {
        if (requestCode == <requestCode>) {
            String result = data.getStringExtra("POS_EMULATOR_RESULT");
            Log.d(TAG, "Result:" + result);
            try {
                JSONObject jResult = new JSONObject(result);
                String sResult = sTime + "\n";
                sResult += "Result:" + jResult.getString("Result") + "\n";
                sResult += "Message:" + getOpt(jResult, "RespMessage") + "\n";
                ...
                mReceipt1 = getOpt(jResult, "CustomerReceipt");
                mReceipt2 = getOpt(jResult, "MerchantReceipt");

            } catch (JSONException e) {
                mResult.setText("Json parse error:\n" + e.getMessage());
            }
        }
    }
}
```

*getOpt just return empty string , if Json doesn't contains field , instead of exception

<requestCode> - same as in 'startActivityForResult'

3.1.5 Response fields

Almost all fields are optional. It can be presented in response depending of result and operation.
Field "Result" is sent in every response.

Field	Description
Result	Transaction result 0 – approved/success 1 – declined 2-8 – reserved 9 – declined by card or terminal or other local error (communication error, timeout, cancelled, etc.).
RespMessage	Additional text information of Transaction result. It could be sent by host , or locally by Payment application.
AuthCode	Autorisation Code
CardBrand	Card Brand (VISA , MasterCard ...)
BIN	Card BIN (first 6 digits of card number)
HostRC	Host response code
PINindicator	Information , whether PIN was entered (Values: Y/N)
Signature	Information , whether Signature checking is required (Values: Y/N)
CustomerReceipt	Customer receipt (formatted text)
MerchantReceipt	Merchant receipt (formatted text)
hostCounters	Host counters (number of transaction and amount) Source : Authorisation host
terminalCounters	Terminal counters (number of transaction and amount) Source : Terminal local counters
CurrencyCode	Transaction currency code.
MaskedPAN	Masked PAN.
AID	Application Identifier - smart card only.
HostTransID	Identifier of transaction for particular host.
TerminalID	Terminal ID
SequenceNumber	Transaction Sequence Number for particular host.
TransactionTime	Transaction Date and Time in format yyyyymmddHHMMSS
Token	Generated token
RegionID	ID of region (value taken from request)

4 Samples

4.1 Approved Payment

Request:

```
{"Amount":"1.50","Operation":"CP","TransactionID":"101933922"}
```

Response:

```
{"Result":"0","AuthCode":"581281","CardBrand":"Visa  
Prepaid","BIN":"479608","PINIndicator":"N","Signature":"N","RespMessage":"Transaction  
Approved 581281","CustomerReceipt":"    Receipt  
Header\n-----\n051          07.06.2019 16:23:27  0089\nRECEIPT FOR CUSTOMER\n-----\n          Sale\nAPPROVED\n\nMERCHANT ID:\n\nTERMINAL:          11100372\n\nCard: [L]  
*****9606\nVisa Prepaid\nAID: A0000000031010\n\nAmount EUR  
1.50\n\nVisa Contactless\nApproval code: 581281\nSequence number: 001051039\n\nRC:  
001\n\nTransaction Approved 581281\n-----\nThank you\nKeep the receipt for later checking\nVersion: KS A02.07  
(043)\n","MerchantReceipt":"    Receipt Header\n-----\n051          07.06.2019 16:23:27  0089\nRECEIPT FOR  
MERCHANT\n-----\n          Sale\nAPPROVED\n\nMERCHANT ID:\n\nTERMINAL:          11100372\n\nCard: [L]  
*****9606\nVisa Prepaid\nAID: A0000000031010\n\nAmount EUR  
1.50\n\nVisa Contactless\nApproval code: 581281\nSequence number: 001051039\n\nRC:  
001\n\nTransaction Approved 581281\n-----\nThank you\nKeep the receipt for later checking\nVersion: KS A02.07  
(043)\n","TransactionID":"101933922"}
```

Receipt:

```
Receipt Header  
-----  
051          07.06.2019 16:23:27  0089  
RECEIPT FOR MERCHANT  
-----  
          Sale  
APPROVED  
MERCHANT ID:  
TERMINAL:          11100372  
Card: [L] *****9606  
Visa Prepaid  
AID: A0000000031010  
Amount EUR          1.50
```


Visa Contactless
Approval code: 581281
Sequence number: 001051039
RC: 001
Transaction Approved 581281

Thank you
Keep the receipt for later checking
Version: KS A02.07 (043)

4.2 Cancel last transaction

Request:

{"Operation": "CC", "TransactionID": "2084485772"}

Response:

{"Result": "0", "AuthCode": "581281", "CardBrand": "Visa
Prepaid", "BIN": "479608", "PINIndicator": "N", "Signature": "N", "RespMessage": "Transaction
Approved 581281", "CustomerReceipt": "Receipt
Header\n-----\n051 07.06.2019 16:23:27 0089\nRECEIPT FOR CUSTOMER\n-----\nSale\nTRANSACTION CANCELLED\n\nMERCHANT ID:\nTERMINAL:
11100372\n\nCard number: [L] *****9606\nVisa Prepaid\nAID: A0000000031010\n\nREJECTED AFTER AUTHORISATION\n\nAmount EUR 1.50\n\nVisa
Contactless\nApproval code: 581281\nSequence number: 001051039\n\nRC:
001\n\nTransaction Approved 581281\n-----\nThank
you\nKeep the receipt for later checking\nVersion: KS A02.07 (043)\n", "MerchantReceipt": "Receipt
Header\n-----\n051 07.06.2019 16:23:27 0089\nRECEIPT FOR MERCHANT\n-----\nSale\nTRANSACTION CANCELLED\n\nMERCHANT ID:\nTERMINAL:
11100372\n\nCard number: [L] *****9606\nVisa Prepaid\nAID: A0000000031010\n\nREJECTED AFTER AUTHORISATION\n\nAmount EUR 1.50\n\nVisa
Contactless\nApproval code: 581281\nSequence number: 001051039\n\nRC:
001\n\nTransaction Approved 581281\n-----\nThank
you\nKeep the receipt for later checking\nVersion: KS A02.07
(043)\n", "TransactionID": "2084485772"}

Receipt:

Receipt Header

051 07.06.2019 16:23:27 0089
RECEIPT FOR MERCHANT

Sale

TRANSACTION CANCELLED

MERCHANT ID:

TERMINAL: 11100372

Card number: [L] *****9606

Visa Prepaid

AID: A0000000031010

REJECTED AFTER AUTHORISATION

Amount EUR 1.50

Visa Contactless

Approval code: 581281

Sequence number: 001051039

RC: 001

Transaction Approved 581281

Thank you

Keep the receipt for later checking

Version: KS A02.07 (043)

4.3 Refund

Request:

```
{"Amount":"0.50","Operation":"CR","TransactionID":"3152175548"}
```

Response:

```
{"Result":"0","AuthCode":"390096 B","CardBrand":"Visa Prepaid","BIN":"479608","PINIndicator":"N","Signature":"N","RespMessage":"Transaction Approved 390096","CustomerReceipt":"...truncated...","MerchantReceipt":"...truncated...","TransactionID":"3152175548"}
```

4.4 Payment with signature

Request:

```
{"Amount":"0.35","Operation":"CP","TransactionID":"6986804334"}
```

Response:

```
{"Result":"0","AuthCode":"005347","CardBrand":"MC","BIN":"546331","PINIndicator":"N","Signature":"Y","RespMessage":"Transaction Appproved 005347","CustomerReceipt":" Receipt Header\n-----\n052 10.06.2019 16:03:38 0105\nRECEIPT FOR CUSTOMER\n-----\n Sale\nAPPROVED\n\nMERCHANT ID:\nTERMINAL: 11100372\n\nCard: [M] *****4422\nMC\n\nAmount EUR 0.35\n\nApproval code: 005347\nSequence number: 001052010\n\nRC: 001\n\n Transaction Approved 005347\n\n-----\n Thank you\n Keep the receipt for later checking\n Version: KS A02.07 (043)\n","MerchantReceipt":" Receipt
```

Header\n-----\n052 10.06.2019 16:03:38 0105\nRECEIPT FOR MERCHANT\n-----\nSale\nAPPROVED\n\nMERCHANT ID:\nTERMINAL: 11100372\n\nCard: [M]\n*****4422\nMC\n\nAmount EUR 0.35\n\n\nSignature:\n\n\nApproval code: 005347\nSequence number: 001052010\n\nRC:\n001\n\nTransaction Approved 005347\n-----\nThank you\nKeep the receipt for later checking\nVersion: KS A02.07\n(043)\n","TransactionID":"6986804334"}

Receipt:

Receipt Header

052 10.06.2019 16:03:38 0105
RECEIPT FOR MERCHANT

Sale
APPROVED

MERCHANT ID:
TERMINAL: 11100372

Card: [M] *****4422
MC

Amount EUR 0.35

Signature:

Approval code: 005347
Sequence number: 001052010

RC: 001

Transaction Appproved 005347

Thank you
Keep the receipt for later checking
Version: KS A02.07 (043)

4.5 SubTotals

Request:

{"Operation":"CS","TransactionID":"2142496061"}

```
{
    "Result": "0",
    "TransactionID": "2142496061",
    "hostCounters": [
        {
            "RecordId": "FDS_HOST",
            "DebitCount": "48",
            "DebitAmount": "16984",
            "CreditCount": "0",
            "CreditAmount": "0"
        },
        {
            "RecordId": "GASTRO_HOST",
            "DebitCount": "0",
            "DebitAmount": "0",
            "CreditCount": "0",
            "CreditAmount": "0"
        }
    ],
    "terminalCounters": [
        {
            "RecordId": "MC",
            "DebitCount": "23",
            "DebitAmount": "11055",
            "CreditCount": "0",
            "CreditAmount": "0"
        },
        {
            "RecordId": "MC",
            "DebitCount": "2",
            "DebitAmount": "40",
            "CreditCount": "0",
            "CreditAmount": "0"
        },
        {
            "RecordId": "VISA",
            "DebitCount": "23",
            "DebitAmount": "5889",
            "CreditCount": "0",
            "CreditAmount": "0"
        },
        {
            "RecordId": "FDS_TERMINAL",
            "DebitCount": "48",
            "DebitAmount": "16984",
            "CreditCount": "0",
            "CreditAmount": "0"
        },
        {
            "RecordId": "GASTRO_TERMINAL",
            "DebitCount": "0",
            "DebitAmount": "0",
            "CreditCount": "0",
            "CreditAmount": "0"
        }
    ],
    "MerchantReceipt": "\n\nAndroid\nA920\n07.02.2020\n16:08:37\n-----\nRECEIPT FOR\nMERCHANT\n-----\nSubtotals\nTotals OK\nTerminal:\nPH000001\n-----\nMC [EUR]\nDebit\n110.55\nCredit\n0000\n0.00\n-----\nVISA [EUR]\nDebit\n0023\n58.89\nCredit\n0000\n0.00\n-----\nTERMINAL [EUR]\nDebit\n0046\n169.44\nCredit\n0000\nTip amount\n0000\n0.00\n-----\nMC [CZK]\nDebit\n0002\n0.40\nCredit\n0000\n0.00\nTip amount\n0000\n0.00\n-----\nTERMINAL [CZK]\nDebit\n0002\n0.40\nCredit\n0000\n0.00\nTip amount\n0000\n0.00\nRC: 007, Prijata\nadmin\n-----\nThank you\nKeep the receipt for later\nchecking\nVerzia: KS A02.07 (044)\n","Android\nA920\n07.02.2020\n16:09:11\nRECEIPT FOR\nMERCHANT\n-----\nSubtotals\nAPPROVED\n\nTerminal: TESTPHA920\n-----\nTERMINAL\nDebit\n0000\n0.00\nCredit\n0000\n0.00\nTip amount\n0000\n0.00\n-----\nThank you\nKeep the receipt for later\nchecking\nVersion: KS A02.07 (044)\n"}]
```

"hostCounters":

```
[
  {"RecordId": "FDS_HOST",
    "DebitCount": "48",
    "DebitAmount": "16984",
    "CreditCount": "0",
    "CreditAmount": "0"
  },
  {"RecordId": "GASTRO_HOST",
    "DebitCount": "0",
    "DebitAmount": "0",
    "CreditCount": "0",
```

```
        "CreditAmount": "0"
    }
]
```

Each host has separated terminal's counters:

"terminalCounters":

```
[
  { "RecordId": "MC",
    "DebitCount": "23",
    "DebitAmount": "11055",
    "CreditCount": "0",
    "CreditAmount": "0"
  },
  { "RecordId": "MC",
    "DebitCount": "2",
    "DebitAmount": "40",
    "CreditCount": "0",
    "CreditAmount": "0"
  },
  { "RecordId": "VISA",
    "DebitCount": "23",
    "DebitAmount": "5889",
    "CreditCount": "0",
    "CreditAmount": "0"
  },
  { "RecordId": "FDS_TERMINAL",
    "DebitCount": "48",
    "DebitAmount": "16984",
    "CreditCount": "0",
    "CreditAmount": "0"
  },
  { "RecordId": "GASTRO_TERMINAL",
    "DebitCount": "0",
    "DebitAmount": "0",
    "CreditCount": "0",
    "CreditAmount": "0"
  }
]
```

Note:

FDS_TERMINAL contains summary of brands "VISA" and "MC" (MasterCard). It should equal to FDS_HOST counters.

Receipt:

Note:

Terminal's counters are group by card's brand and also as totals. Terminal's totals should equal to host's totals. In case of multi host, field MerchantReceipt contains JSONArray , where each host has separated receipt.

```
"MerchantReceipt":
[ <--- JSONArray begin
"
    Android A920
07.02.2020                                16:08:37
-----
    RECEIPT FOR MERCHANT
-----
        Subtotals
        Totals OK
Terminal: PH000001
-----
MC [EUR]
Debit      0023                110.55
Credit    0000                0.00
-----
VISA [EUR]
Debit      0023                58.89
Credit    0000                0.00
-----
TERMINAL [EUR]
Debit      0046                169.44
Credit    0000                0.00
Tip amount 0000                0.00
-----
MC [CZK]
Debit      0002                0.40
Credit    0000                0.00
Tip amount 0000                0.00
-----
TERMINAL [CZK]
Debit      0002                0.40
Credit    0000                0.00
Tip amount 0000                0.00
    RC: 007, Prijata admin
-----
        Thank you
    Keep the receipt for later checking
        Verzia: KS A02.07 (044)
"
, <--- JSONArray delimiter
"
    Android A920
-----
```

07.02.2020 16:09:11

RECEIPT FOR MERCHANT

Subtotals

APPROVED

Terminal: TESTPHA920

TERMINAL

Debit 0000 0.00

Credit 0000 0.00

Tip amount 0000 0.00

Thank you

Keep the receipt for later checking

Version: KS A02.07 (044)

"

] <--- JSONArray End

4.6 Token - request

Request:

```
{"Operation": "TR", "RegionID": "Reg1"}
```

Response - success:

```
{"Result": "0", "Token": "0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF", "RespMessage": "Approved"}
```

Response - failed:

```
{"Result": "9", "RespMessage": "Timeout"}
```

4.7 Cancel any transaction

As this operation refers to original transaction data we put complete example here.

Original payment transaction-request:

```
{"Operation": "CP", "Amount": "2.00", "TransactionID": "123456654432"}
```

Original payment transaction-Response:

```
{"Result": "0", "AuthCode": "284092", "TerminalID": "12345678", "HostTransID": "04284092
```

```
191218", "RespMessage": "TRANSAKCIA VYKONANA
```

```
284092", "CardBrand": "MasterCard", "BIN": "546331", "MaskedPAN": "*****4422", "PINIndicator": "N", "A
```

```
ID": "A0000000041010", "CurrencyCode": "978", "Signature": "N", "SequenceNumber": "001007017", "Transac  
tionTime": "20191218101551", "CustomerReceipt": "TEST POS\n Street 100VB\n
```

Bratislava 81234\n-----\n007 18.12.2019 10:15:50 0027\n
 POTVRDENKA PRE ZÁKAZNÍKA\n-----\n Platba\n\nMERCHANT ID:
 1\nTERMINÁL: 12345678\n\nPAN: [L] *****4422\nMasterCard\nAID:
 A0000000041010\n\nSuma EUR 2.00\n\nContactless\nAutorizačný kód:
 284092\nSekvenčné číslo: 001007017\nPôvodné sek. číslo: 001007011\n\nRC: 001\n\n
 TRANSAKCIA VYKONANA 284092\n-----\n Ďakujeme Vám.\n
 Potvrdenku si odložte\n pre prípadnú kontrolu.\n Verzia: KS A02.07
 (046)\n", "MerchantReceipt": " TEST POS\n Street 100VB\n Bratislava
 83104\n-----\n007 18.12.2019 10:15:50 0027\n POTVRDENKA
 PRE OBCHODNÍKA\n-----\n Platba\n\nMERCHANT ID:
 1\nTERMINÁL: 12345678\n\nPAN: [L] *****4422\nMasterCard\nAID:
 A0000000041010\n\nSuma EUR 2.00\n\nContactless\nAutorizačný kód:
 284092\nSekvenčné číslo: 001007017\nPôvodné sek. číslo: 001007011\n\nRC: 001\n\n
 TRANSAKCIA VYKONANA 284092\n-----\n Ďakujeme Vám.\n
 Potvrdenku si odložte\n pre prípadnú kontrolu.\n Verzia: KS A02.07
 (046)\n", "TransactionID": "123456654432"}

Cancellation request:

{"Operation": "CU", "Amount": "2.00", "TransactionID": "2635362446", "HostTransID": "04284092
 191218", "TerminalID": "12345678", "Last4PANnumber": "4422", "SequenceNumber": "001007017", "Original
 Date": "191218"}

Response:

{"Result": "0", "AuthCode": "284092", "TerminalID": "12345678", "HostTransID": "04284092
 191218", "RespMessage": "TRANSAKCIA VYKONANA
 284092", "MaskedPAN": "*****4422", "CurrencyCode": "978", "Signature": "N", "TransactionTime": "2019
 1218101551", "CustomerReceipt": " TEST POS\n Street 100VB\n Bratislava
 83104\n-----\n007 18.12.2019 10:17:03 0028\n POTVRDENKA
 PRE ZÁKAZNÍKA\n-----\n Storno\n\nMERCHANT ID:
 1\nTERMINÁL: 12345678\n\nSuma EUR 2.00\n\nPôvodná
 transakcia:\n-----\n 18.12.2019 10:15:50\n TopUp init
 kľúča\nTERMINÁL: 12345678\nPAN: [K] *****4422\nMC\nAutorizačný kód:
 284092\nSekvenčné číslo: 001007017\n-----\n\nRC: 001\n\n
 TRANSAKCIA VYKONANA 284092\n-----\n Ďakujeme Vám.\n
 Potvrdenku si odložte\n pre prípadnú kontrolu.\n Verzia: KS A02.07
 (046)\n", "MerchantReceipt": " TEST POS\n Street 100VB\n Bratislava
 83104\n-----\n007 18.12.2019 10:17:03 0028\n POTVRDENKA
 PRE OBCHODNÍKA\n-----\n Storno\n\nMERCHANT ID:
 1\nTERMINÁL: 12345678\n\nSuma EUR 2.00\n\nPôvodná
 transakcia:\n-----\n 18.12.2019 10:15:50\n TopUp init
 kľúča\nTERMINÁL: 12345678\nPAN: [K] *****4422\nMC\nAutorizačný kód:
 284092\nSekvenčné číslo: 001007017\n-----\n\nRC: 001\n\n
 TRANSAKCIA VYKONANA 284092\n-----\n Ďakujeme Vám.\n
 Potvrdenku si odložte\n pre prípadnú kontrolu.\n Verzia: KS A02.07
 (046)\n", "TransactionID": "2635362446"}