LUTZ
Informationssysteme

LUIS ePayment Change History

Version 5.9, September 2015

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Document History

Version	Date	Author	Changes	Comments
5.0	01.09.2014	M. Gelfort		
5.1	14.11.2014	M. Gelfort		
5.2.	15.12.2014	M. Gelfort		
5.3	05.02.2015	M. Gelfort		
5.4	23.03.2015	M. Gelfort		
5.5	15.04.2015	M. Gelfort		
5.6	18.5.2015	M. Gelfort		
5.7	19.6.2015	M. Gelfort		
5.8	06.07.2015	M. Gelfort		
5.9	09.09.2015	M. Gelfort		

1 Version 5.9

1.1 Configuration

In a SharedTerminalServer environment the following configuration parameters moved from the server to the client configuration file:

- Simulation

  Set this flag to run LUIS ePayment in simulation mode (without EFT device).

- `LogConfig`
  Full qualified path (use '/' instead of '\') to a XML file, which contains the log4j configuration for LUIS ePayment.

- `MerchantJournal`
  Filename of the merchant journal (use '/' instead of '\') . If the file doesn't exist, it will be created. An empty value leads to no merchant journal. Default=<empty>

- `MerchantJournalEncryption`
  Boolean flag, if merchant journal is encrypted (=true) or not (=false). Default=false.

If a server configuration file still has these values, they get ignored.

A standard client config file in a SharedTerminalServer environment looks like this:

```
#-------------------
# ePayment settings
#-------------------
    Simulation                 = false
    LogConfig                  = ./LUIS_ePayment.xml
    MerchantJournal            = C:/journal files/merchantJournal.xml
    MerchantJournalEncryption  = false
    #--------------------
    # sharedTerminalServer
    #--------------------
        SharedTerminalIP       = 192.168.1.100
        SharedTerminalPort     = 1099
```

All paths are on the client PC side. Please remark, that a path only allows '/' in Java. If you are using a '\', it must be either escaped '\\' or replaced by '/', in Windows and Linux alike.

A blank within a path is allowed. The path must not be embraced by single or double quotes ('...' or "...").

1.2 Java Interface

1.2.1 AbstractSession

- *method changed to static*   static String AbstractSession **getVersion**()

2   Version 5.8

Bugfixing. No interface changes.

3 Version 5.7

No Interface changes.

The following devices are newly supported:

- Ingenico iWL250

- CCV VX680

The communication to and from an Ingenico device, which was previously sometimes unstable, has been enhanced and is now working without constraints.

4 Version 5.6

Interfaces and functionality haven't been changed.

4.1 Installation

Installation steps for LUIS ePayment SharedTerminal Server as Windows service or Linux Daemon were modified due to errors. Installation process is split in two (instead of former one) steps:

- Step1: start.bat -configure … (this is *new*)

- Step2: start.bat -install

See the installation documentation for further details.

5 Version 5.5

There are no interface changes in the LUIS ePayment API.

6 Version 5.4

6.1 Java interface

6.1.1 AutostornoException

- *renamed* **AbortException**

6.1.2 PayTerminal

- *parameter deleted* PayTransaction **paymentWithoutCard** (

    long cents,

    int payType,

    long cardNr,

    ~~long cardVerificationNr,~~

    int expiredMonth,

    int expiredYear,

    ProductCategory[] productCategories,

    PayMedia media)

- *parameter deleted* PayResult **reversalWithoutCard**(int receiptNr,

    long cents,

    long cardNr,

    ~~long cardVerificationNr,~~

    int expiredMonth,

    int expiredYear,

    ProductCategory[] productCategories)

- *parameter deleted* PayTransaction **reservationWithoutCard** (

    long cents,

    int payType,

    long cardNr,

    ~~long cardVerificationNr,~~

    int expiredMonth,

    int expiredYear,

    ProductCategory[] productCategories,

    PayMedia media)

- *parameter deleted* PayTransaction **increaseReservationWithoutCard** (

    long cents,

<div style="text-align:right">

int payType,

long cardNr,

~~long cardVerificationNr,~~

int expiredMonth,

int expiredYear,

int traceNr, String aid,

ProductCategory[] productCategories,

PayMedia media)

</div>

parameter deleted   PayTransaction **bookingWithoutCard**(long cents,

<div style="text-align:right">

long reservedCents,

int payType,

long cardNr,

~~long verificationNr~~

int expiredMonth,

int expiredYear,

int traceNr,

String aid,

Boolean isGiroMaestro,

ProductCategory[] productCategories,

PayMedia media)

</div>

- *new method*   PayTransaction **refundWithoutCard** (

<div style="text-align:right">

long cents,

int payType,

long cardNr,

int expiredMonth,

int expiredYear,

ProductCategory[] productCategories,

PayMedia media)

</div>

- *parameter added*   PayTransaction **reversal** (

<div style="text-align:right">

int receiptNr,

long cents,

PayMedia media)

</div>

- *parameter added*   PayTransaction **reversal** (

<div style="text-align:right">

int receiptNr,

long cents,

</div>

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ProductCategory[] productCategories,

PayMedia media)

- *parameter added*   PayTransaction **reversalWithoutCard** (

int receiptNr,

long cents,

String cardNr,

int expiredMonth,

int expiredYear,

ProductCategory[] productCategories,

PayMedia media)

6.1.3   PayMedia

- *type changed*   ~~String~~ → Long **getCardNr**()

- *method removed*   ~~String getValidity()~~   →   *(removed by 2 new methods, see below)*

- *new method*   Integer **getExpiredMonth**()

- *new method*   Integer **getExpiredYear**()

7 Version 5.3

There are no interface changes in the LUIS ePayment API.

8 Version 5.2

8.1 Java interface

8.1.1 NotSupportedException

- *new* class; derived from FirmwareCorruptException, CommandException, PayException

9 Version 5.1

9.1 Java interface

9.1.1 ReceiptType

- *new enumeration type*

9.1.2 ProductCategory

- *new Class*

9.1.3 PayTerminal

- *new*: void **printReceiptNr**(Integer receiptNrFrom, Integer receiptNrTo,

  ReceiptType receiptType)

- *new*: void **printLastReceipt**(ReceiptType receiptType)

- *new*: PayTransaction **payment**(

  long cents,

  int payType,

  ProductCategory[] productCategories,

  PayMedia media)

- *new*: PayTransaction **refund**(

  long cents,

  int payType,

  ProductCategory[] productCategories,

  PayMedia media)

- *new*: void **reversal**(

  int receiptNr,

  long cents,

  ProductCategory[] productCategories)

- *new*: void **reversalWithoutCard**(

  int receiptNr,

  long cents,

  long cardNr,

  long cardVerificationNr,

  int expiredMonth,

  int expiredYear,

  ProductCategory[] productCategories)

- *new*: PayTransaction **paymentWithoutCard**(lont cents, int payType,

  long cardNr, long cardVerificationNr,

int expiredMonth, int expiredYear,

ProductCategory[] productCategories,

PayMedia media)

- *new*:   PayTransaction **reservation**(long cents,

  int payType,

  ProductCategory[] productCategories,

  PayMedia media)

- *new*:   PayTransaction **reservationWithoutCard**(

  long cents,

  int payType,

  long cardNr,

  long cardVerificationNr,

  int expiredMonth,

  int expiredYear,

  ProductCategory[] productCategories,

  PayMedia media)

- *new*:   PayTransaction **increaseReservation**(

  long cents,

  int payType,

  int traceNr,

  String aid,

  ProductCategory[] productCategories,

  PayMedia media)

- *new*:   PayTransaction **increaseReservationWithoutCard**(

  long cents,

  int payType,

  long cardNr,

  long cardVerificationNr,

  int expiredMonth,

  int expiredYear,

  int traceNr,

  String aid,

  ProductCategory[] productCategories,

  PayMedia media)int payType,

- *new*:   PayTransaction **booking**(long cents,

       long reservedCents,

       int payType,

       int traceNr,

       String aid,

       Boolean isGiroMaestro,

       ProductCategory[] productCategories,

       PayMedia media)

- *new*:   PayTransaction **bookingWithoutCard**(

       long cents,

       long reservedCents,

       int payType,

       long cardNr,

       long cardVerificationNr,

       int expiredMonth,

       int expiredYear,

       int traceNr,

       String aid,

       Boolean isGiroMaestro,

       ProductCategory[] productCategories,

       PayMedia media)

9.1.4 PayConfiguration

- *new*   PayConfiguration is derived from the new interface Configuration.

- *change*   All methods using PayConfiguration as a parameter or return value change to Configuration.

9.1.5 Configuration

This is a *new* Interface.

9.1.6 PayResult

New return class for the following methods, which previously returned void:

PayResult PayTerminal.diagnose(...)

PayResult PayTerminal.selftest()

PayResult PayTerminal.settings()

PayResult PayTerminal.initialStartup(...)

PayResult PayTerminal.reversal(...)

PayResult PayTerminal.reversalWithoutCard(...)

PayResult PayTerminal.printReceipt(...)

PayResult PayTerminal.printLastReceipt(...)

PayResult PayTerminal.printReceiptNr(...)

All other return classes

PayMedia

PayResultSales

PayFirmwareSettings

are newly derived from PayResult.

9.1.7   PaySharedSession

This *new* class substitutes PaySession in a LUIS ePayment SharedTerminalServer environment and has the same methods as PaySession, but with additional parameter 'tid'.

- • *new*   **PaySharedSession**()

- • *new*   PayTerminal **login**(PayConfiguration config,
                                             String tid)

- • *new*   void **logout**()

- • *new*   PayResult **initialStartup**(payConfiguration config,
                                             String tid)

- • *new*   void **setLanguage**(PayConfiguration config,
                                             String tid,
                                             String language)

- • *new*   cardReader **getCardReader**(PayConfiguration config,
                                             String tid)

- • *new*   PINPad **getPinpad**(PayConfiguration config,
                                             String tid)

9.1.8   AbstractSession

This is a *new* abstract base class for PaySession and PaySharedSession.

- • *moved to baseclass*   String getLanguage()

- *moved to baseclass*   void setListener(PayMessageListener newListener)

- *moved to baseclass*   PayMessageListener getListener()

- *moved to baseclass*   String getVersion()

- *moved to baseclass*   String formatDate(long milliSec, String format)

- *new*   static void exit()

9.2   Configuration file

- *new*   PortLocal = <portNr>

- *new*   DeviceConnector = <{RS232, LAN}>

- *new*   SharedTerminalIP = <IP address>

- *new*   SharedTerminalPort = <portNr, default 1099>

10 Version 5.0

10.1 Java interface

10.1.1 PayConfiguration

- *new*: String **getDeviceProtocol**()

- *new*: boolean **getUseInternalPrinter**()

- *new*: boolean **getAllowAdministration**

- *new*: String **getLicenseFile**()

- *new*: boolean **getRemovalProtectionCheck**()

- *new*: void **setDeviceProtocol**(String name)

- *new*: void **setUseInternalPrinter**(boolean val)

- *new*: void **setAllowAllowAdministration**(boolean val)

- *new*: void **setLicenseFile**(String filename)

- *new*: void **setRemovalProtectionCheck**(boolean val)

10.1.2 PaySession

- *new*: String **formatDate**(long date, String format)

10.1.3 PayTerminal

- *renamed*: ~~PAY_TYPE_ONLINE = 0x01~~ →

  PAY_TYPE_ONLINE_PIN = 0x01

- *new*: PAY_TYPE_ONLINE_NO_PIN = 0x03

- *new*: RECEIPT_TYPE_CUSTOMER = 0

- *new*: RECEIPT_TYPE_MERCHANT = 1

- *new*: RECEIPT_TYPE_ADMINISTRATOR = 2

- *renamed*: ~~credit(...)~~ → **refund**(...)

- *renamed +*

  type changed: void ~~cashCrop~~() → <u>PayResult</u> **reconciliation**()

- *new*: PayResultSales **turnoverTotals**()

- *renamed*: ~~lastCashCropDate()~~ → **lastReconciliationDate**()

- *removed*: ~~PayTransaction **payment**(int cents, boolean online,~~

  ~~PayMedia media)~~

- *removed*: ~~PayTransaction **credit**(int, boolean, PayMedia)~~

- *new*: void **printReceipt**(String receiptTxt)

- *new*: void **printLastReceipt**()

- *new:* void **printReceiptNr**(int receiptNrFrom, int receiptNrTo)

- *new*: void **selftest**()

- *new*: void **setDateTime**(int year, int month, int day, int hour,

  int min, int sec)

- *new*: void **changeMerchantPin**(String oldPIN, String newPIN)

- *new*: void **reversal**(int receiptNr, long cents)

- *type changed*: *int → long*

  PayTransaction **payment**(<u>long</u> cents,

  int payType,

  PayMedia media)

- *type changed*: *int → long*

  PayTransaction **credit**(<u>long</u> cents,

  int payType,

  PayMedia media)

10.1.4 PayMessageListener

- *removed*: ~~void **setPrintMessage**(String message)~~

- *new*: void **setReceiptMessage**(String receipt, short receiptType)

10.1.5 PayMedia

- *type changed*: String → <u>Integer</u> **getReceiptNr**()

- *type changed*:   String → <u>Long</u> **getAmount**()

- *type changed*:   String → <u>Integer</u> **getTraceNr**()

- *type changed*:   String → <u>Integer</u> **getCardSequence**()

- *type changed*:   Short → <u>Integer</u> **getCardType**()

- *type changed*:   String → <u>Integer</u> **getTerminalReturnClass**()

- *type changed*:   String → <u>Integer</u> **getTerminalReturnCode**()

- *type changed*:   short → public static final <u>int</u> CARD_TYPE_***

- *removed*:   ~~String getReceiptText()~~

- *new*:   String getCustomerReceipt()

- *new*:   String **getMerchantReceipt**()

- *new*:   String **getAdministratorReceipt**()

- *renamed*:   ~~String getICC()~~ → String <u>getCardTypeName</u>();

10.1.6 PayResultSales
- *new* class

10.1.7 MagneticCard
- *new*:   MagneticCard(CreditCard cc)

10.1.8 DiagnoseRunningException
- *new* class

10.1.9 RemovalProtectionRunningException
- *new* class

10.1.10 ErrorText
- *class removed*

10.1.11 PayException

- *renamed*: ~~ERR_MAT7000 = 13~~ → ERR_EFT = 13

- *new*: ERR_NOT_IMPLEMENTED = 33

10.1.12 CommandException

- *removed*: ~~int errorClass~~
- *removed*: ~~int errorCode1~~
- *removed*: ~~int errorCode2~~
- *new*: int errorCode

11 Version 4.8