

LUIS ePayment Installation

Guide



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Installation Guide

LUIS ePayment



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Document History

Version	Date	Author	Changes	Comments
1.0	26.09.2007	M. Gelfort		first version
5.0	31.08.2014	M. Gelfort	Support of ZVT and KRONE protocoll.	The version 5.0 is not
				backward compatible with
				previous versions.
5.1	14.11.2014	M. Gelfort	SharedTerminalServer;	
			32- and 64-bit support	
5.2	15.12.2014	M. Gelfort		
5.3	05.02.2015	M. Gelfort	Running LUIS ePayment	
			SharedTerminalServer as a Windows	
			service or Linux Daemon.	
			C/C++ libraries for Linux.	
5.6	May 2015	M. Gelfort	Modified installation for	
			SharedTerminalServer as	
			service/daemon.	
			JRE 1.7 mandatory for	
			SharedTerminalServer as	
			service/daemon	
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5.9	09.09.2015	M. Gelfort	new Chapter: "Supported devices";	
			Actualisation of Chapter "Configuration"	
5.10	26.01.2016	M. Gelfort		

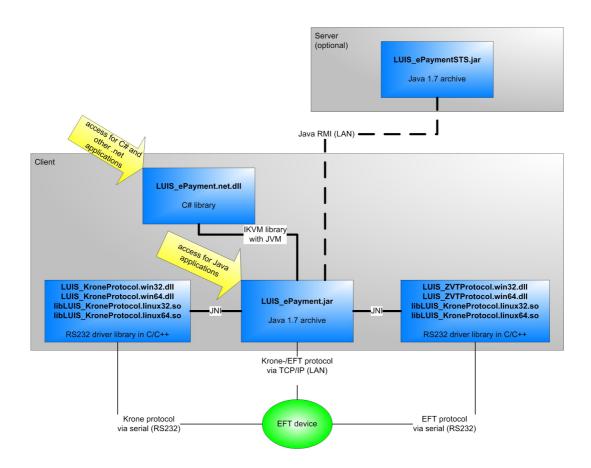




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1 Architecture



The server side components are only available, if LUIS ePayment is installed with the shared terminal option. In a simple standalone installation of LUIS ePayment, where one installation has exactly one EFT device assigned and locally connected, only the client side components are needed.



2 Supported EFT devices



Abbildung 1: Verifone Artema Modular



Abbildung 2: Verifone Artema Hybrid



Abbildung 3: Verifone H5000



Abbildung 4: Verifone UX100



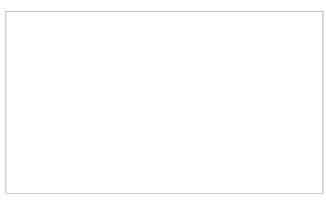


Abbildung 5: Ingenico iCT250





Abbildung 6: Ingenico iWL250

Abbildung 7: Ingenico iPP480



Abbildung 8: CCV VX520



Abbildung 9: CCV VX680



Abbildung 10: CCV OPP C60



3 LUIS ePayment (standalone)

3.1 Files overview

3.1.1 Java files

LUIS ePayment consists of two parts. The first part contains the complete business logic and all the objects, the end user is handling with. This part is placed in the file

lib/LUIS_ePayment.jar

The second part is a thin layer, responsible for the communication via the RS232 interface with the electronic fund terminal (EFT). This second part is written in C and C++ to speed up communication and send commands/replies between Java and the EFT without major delay. Currently two different communication protocols are supported:

EFT protocol, a standard for many EFTs

KRONE protocol, a proprietary protocol from Verifone

These two different protocols are implemented for Windows 32Bit in the files

lib/LUIS_ZVTProtocol.win32.dll
lib/LUIS_KroneProtocol.win32.dll

and for Windows 64Bit in the files

lib/LUIS_ZVTProtocol.win64.dll
lib/LUIS_KroneProtocol.win64.dll

If running under Linux 32Bit, the corresponding libraries are

lib/libLUIS_ZVTProtocol.linux32.so
lib/libLUIS_KroneProtocol.linux32.so

and for Linux 64Bit

lib/libLUIS_ZVTProtocol.linux64.so
lib/libLUIS_KroneProtocol.linux64.so

The following files are needed for logging and communication via ISDN. They can be considered as utility functions for Java.

lib/log4j-1.2.16.jar
lib/jcapi.jar



Next we have some settings files, which configure the communication with the EFT and define a log level and the behaviour of runtime tracing.

At last a license file is needed for a valid license of LUIS ePayment.

etc/LUIS_ePaymentLicense.dat

The name of this file can be changed since it is referenced in zvt.cfg.

3.1.2 .net files

When invoking LUIS ePayment from a .net environment, all files mentioned in chapter 3.1.1 are needed. Additionally the file

lib/LUIS_ePayment.net.dll

is mandatory. This later file has to be referenced in the .net project. Because it has a strongName, it is usable in a certified environment.

3.2 Installation steps

3.2.1 Java environment

1. A Java runtime (JRE) in Version 1.7 (or higher) has to be installed on the system. The current version can be downloaded at

http://java.com/

We always recommend to use the latest version of Java.

2. Create a home directory for the LUIS ePayment files. Its a good idea to use an environment vaiable like

\$LUIS_EPAY_HOME

- 3. Copy all files from chapter 3.1.1 to **\$LUIS_EPAY_HOME**.
- 4. Edit the files

and correct the value of all files mentioned there.

5. When running in a Java environment, migrate \$LUIS_EPAY_HOME in your Java classpath.



3.2.2 .net environment

- 1. Do all the steps of chapter 3.2.1.
- 2. The file

lib/LUIS_ePayment.net.dll

must be in the same directory with

lib/LUIS_ePayment.jar

3. Install IKVM, a tool, to access Java code from .net. It can be downloaded at

http://ikvm.net

Instead of downloading, you can access ikvm directly from the ${f lib}$ for .net/ folder.

4. Add a reference to

/lib/IKVM.OpenJDK.Core.dll

and

/lib/LUIS_ePayment.net.dll

in your .net project and compile it. The LUIS ePayment Implementation resides in the packages

de.luis.kioskComponents.ePayment.*



4 LUIS ePayment SharedTerminalServer

4.1 Files Overview

4.1.1 Server side files

The LUIS ePayment SharedTerminalServer is written in Java and communicates with standalone LUIS ePayment clients via TCP/IP.

If **\$LUIS_EPAY_STS_HOME** is the topmost installation directory, we recomend the following structure:

\$LUIS_EPAY_STS_HOME/bin contains batch script to start the java program

\$LUIS_EPAY_STS_HOME/lib all *.jar, *.dll and *.so files reside here

\$LUIS_EPAY_STS_HOME/etc this is the directory for the configuration files

Lets have a closer look at the individual files.

The main file is

lib/LUIS_ePaymentSTS.jar

where all business logic is implemented.

This *.jar additionally needs the java archives

lib/jcapi.jar
lib/log4j-1.2.16.jar
lib/yajsw-stable-11.11/

In order to easily start, stop, install and uninstall the server program, a Java Ant script is available

bin/start.bat

This Script invokes an Ant script

bin/build_win.xml

At last the zvt.cfg and license files of the standalone installation are moved on the server side.

We recommend to use a configuration file for each shared EFT device. It is good praxis to create

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a server side configuration directory and put all configuration files of each EFT in it, together with a license file (not compatible with the standalone version of LUIS ePayment).

A server side configuration directory (eg. ./etc) for three EFTs with terminal IDs 11111111, 22222222, and 33333333 might look like this:

etc/11111111.cfg etc/11111111.lic etc/2222222.cfg etc/2222222.lic etc/33333333.cfg etc/33333333.lic

The file extension *.cfg is mandatory, because the server will lookup the configuration for client request by the TID appended with ".cfg". The name of the license files can be modified, because they are referred within the *.cfg files.

The server itself needs no license file.

There is an additional file in the configuration directory named

etc/LUIS_ePaymentSTS.xml

which is a configuration file for server side logging via log4j. If you are unfamiliar with log4j, have a look at http://logging.apache.org/log4j/.

4.1.2 Client side files

No license file is needed on the client side. The file mentioned in chapter 3.1.1 is obsolete and will be ignored.

Because the configuration files are moved from the client to the server side, we need a simplified client configuration file, which contains the address of the LUIS ePayment SharedTerminalServer. Chapter 7.2.1 decribes this in detail.

4.2 Installation steps

4.2.1 Java

1. A Java runtime (JRE) in Version 1.7 (or higher) has to be installed on the system. The current version can be downloaded at



http://java.com/

We always recommend to use the latest version of Java.

2. Install Java Ant. The current version is available here

http://ant.apache.org/

3. Create a home directory for the LUIS ePayment files. Its a good idea to use an environment variable like

\$LUIS_EPAY_STS_HOME

- 4. Copy all files from chapter 4.1.1 to **\$LUIS_EPAY_STS_HOME**.
- 5. Edit the files

\$LUIS_EPAY_STS_HOME/etc/<tid>.cfg
\$LUIS_EPAY_STS_HOME/etc/LUIS_ePaymentSTS.xml

and correct the value of all files mentioned there. We urgently recommend to have a correct and well configured log4j environment running, before proceeding. Only logging allows any insight in what's going on in LUIS ePayment SharedTerminalServer and helps finding configuration problems.

Migrate \$LUIS_EPAY_STS_HOME in your Java classpath.

Have a look at the **LicenceFile=<filename>** entry in the **<tid>.cfg** file. The filename is relative to the **cfgPath** parameter of the startup call (see 4.3.1).

6. Start the LUIS ePayment SharedTerminalServer by invoking

bin/start.bat

or by a manual call of Ant with input file

bin/build_win.xml

4.3 Invocation/Startup

4.3.1 Startup the server

The DOS command script

bin/start.bat

starts the Apache Ant script

bin/build_win.xml



which invokes the Java runtime environment and

as the Main method class.

You can use the DOS script or only the Ant script, or you can directly invoke the Java class. All approaches have the following parameters:

de.luis.kioskComponents.ePayment.sharedTerminal.PaySharedTerminalServer

-start [-cfgPath <path>] [-port <portNr>]

to start the server as an application

and specify a directory, where the configuration files reside (default = "../etc") and define a TCP/IP port number for the Java RMI registry different from 1099 (= default).

Never invoke -start, when running the server as a service/daemon.

-stop

to stop the server, running as an application.

Never invoke -stop, when running the server as a service/daemon.

-configure [-libPath <path>] [-cfgPath <path>] [-port <portNr>]

to create a configuration file for running LUIS ePayment SharedTerminalServer as a Windows service or Linux daemon. This configuration file is the requirement for the later call of **-install**.

Parameter -libPath defines the directory, where the *.jar files are located (default = "../lib").

You may also specify with **-cfgPath** a directory, where the configuration files reside (default = "../etc")

and define with **-port** a TCP/IP port number for the Java RMI registry different from **1099** (= default).

You need administrator rights here.

-install [-libPath <path>] [-cfgPath <path>]

to install and run the server as a Windows service or Linux daemon and specify the directory, where the *.jar files are located (default = "../lib").



You can define the directory of the configuration files (default = "../etc") to let log4j find its property file.

You need administrator rights here.

-uninstall [-libPath <path>]

to uninstall the server service/daemon and specify the directory, where the *.jar files are located (default = "../lib"). You need administrator rights here.

Samples:

bin/start.bat -start -cfgPath ../etc -port 1099

starts the SharedTerminalServer as Application

bin/start.bat -start

stops the Application

bin/start.bat -configure -libPath ../lib -cfgPath ../etc -port 1099

creates a configuration file, which is the precondition to start as daemon/service

bin/start.bat -install -libPath ../lib -cfgPath

uses the previously created configuration file and starts as daemon/service

Installing and running as a service/daemon creates a **LUIS ePayment SharedTerminalServer Service**, which will be automatically started, every time, the operating system is booting. But take care to have log4j logging facility correctly configured, because a service/daemon can only communicate through its logfiles. We therefore strictly recommend to run the SharedTerminalServer as a service/daemon only after successfull testing of the installation by running it as an application, not as as service/daemon.

Please keep in mind, that you need administrator rights, to configure, install or de-install services/daemons. Example, if you are using Windows7 or above, configure and install the service with cmd.exe, running under admin rights. After installation the service itself starts and runs with standard service rights.

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Sometimes the firewall might hinder the start of the Java RMI registry. So if the LUIS ePayment SharedTerminalServer stops while starting RMI registry (have a look at the logfile), check your firewall settings and allow the access to and from port 1099 for Java applications.

If no license file is found during a client login to the server, have a look at the **LicenceFile=<filename>** entry in the **<tid>.cfg** file. The filename is relative to the **cfgPath** Parameter.

4.3.2 Startup the client

Starting the client is invoking your Java or .net implementation.



5 Documentation

All interface classes and methods of LUIS ePayment are described in a javadoc, which can be found in the archive

LUIS ePayment javadoc.zip

Start with the PaySession class and have a look at method

PaySession.login()

In case of a SharedTerminalServer environment start looking at the method

PaySharedSession.login()



6 Samples

It is a good idea to have a look at the samples enclosed with LUIS ePayment. All samples can be found in the archive

LUIS ePayment samples.zip

The samples do always the same:

- login
- query the settings
- make some administrative calls
- start a card payment
- logout

LUIS ePayment is shipped with a Java and C# sample.



7 Configuration

All configuration files need read and write access. These files get read only once during the first need within LUIS ePayment. The configuration files get written as well by LUIS ePayment. So don't use these files to save additional information; it will get lost.

7.1 Standalone client installation

A typical configuration file for LUIS ePayment looks like this:

```
# Device configuration
#-----
    # Common settings
       TerminalID = 691123

Device = iCT250

AllowAdministration = false

= 0x0978
                                           = 69112345
        Allowacuminess
Currency = UxUy/
DisplayLanguage = de
UseInternalPrinter = false
- 45
         TimeoutMat7000
                                             = 65
    #-----
    # Interface ePayment <-> PC
         DeviceProtocol
                                           = ZVT
         DeviceConnector
                                             = LAN
         #----
          # RS232
             COMPort = COM1
SerialPortBaudrate = 9600
SerialPortDataBits = 8
SerialPortParity = N
SerialPortStopBits = 2.0
          #----
          # USB
             USBEndpointRead = 0
USBEndpointWrite = 0
USBProductID = 0
USBVendorID = 0
             USBVendorID
                                           = 0
          # LAN
             IPLocal = 192.168.1.100
PortLocal = 5577
IPGateway = 192.168.1.1
IPSubnetMask = 255.255.255.0
    #-----
    # Interface device <-> networkProvider
         NetworkConnection
         #----
          # ISDN
                                         = 221534660
              Call1
              Call2
                                           = 221534660
```



```
Call3
                                         = 221534660
                                        = 221534660
             Call4
                                        = 0
             Call5
                                        = POSM
             UserData
         # TAN
         #----
                                   = 17.111.131.52
= 217.111.131.52
= 500
           IP1
            PORT1
            PORT2
                                       = 500
    #-----
    # Interface device <-> cardReader
    CardReaderConnection = Controller
    # Interface device <-> PINPad
    #-----
       PinpadConnection = Controller
    #----
    # Security
      MerchantPIN = DZRiyHWFXLT8cD7Yiy...aLmm7cI8gGeBtQ=
ServicePIN = aJoLBWjk8AAYx5iPUa...hRO8TZWVz1V9Gg=
# ePayment settings
   CheckRemovalProtection = false
DisplayMessages = true
    # Files
    #-----
       LicenseFile = ../etc/LUIS_ePaymentLicense.dat
LogConfig = ../etc/LUIS_ePayment.xml
MerchantJournal = ./haendlerjournal.log
        MerchantJournal - .,...

MerchantJournalEncryption = false

- ./etc/blacklist.cfg
    #----
    # Internal
       HighBusyCounter = 55
LowBusyCounter = 3
ArchivePath = ./
DisplayTimeShowText = 3
LastCashCrop = 1405435924545
MaxPINTries = 3
        MaxPINTries
        MerchantData1
        MerchantData2
        MerchantData3
        MerchantDatas
MerchantData4
MerchantData5
        Card
                                        = 0x60
        VU Nr
    # SharedTerminalServer
    #----
        SharedTerminalIP
        SharedTerminalPort
```

7.1.1 Common Settings

Key	Description
TerminalID	Mandatory.



	The 8-digit ID of the EFT. Set this field to 00000000 if you dont't know it. It will be replaced with the current EFT's ID. An eft ID is necessary during eft initialisation.
Device	Mandatory. Specifies the type of the EFT. Possible values are {Artema Modular, MAT7000, Artema Hybrid, iCT250, iWL250, iPP480, H5000, VX520, VX680, OPP- C60, UX100, ZVT}
AllowAdministration	Boolean flag to allow (=true) or deny (=false) the administration functions on the EFT keyboard. Default=true.
Currency	Configures the currency of the EFT as a hexadecimal value. Actually only 0x0978 (=EUR) is supported.
DisplayLanguage	Defines the language of the display texts on the EFT. Default=de. Samples: en, de, fr, it (see http://ftp.ics.uci.edu/pub/ietf/http/related/iso639.txt)
UseInternalPrinter	Boolean flag to activate (=true) or deactivate (=false) the internal printer of the EFT. Default=false.
Timeout	The timeout for a network command.
TimeoutMat7000	The timeout for the low level communication with the device (RS232 or TCP/IP) . Default = 65.

7.1.2 Interface ePayment <-> PC

Key	Description
DeviceProtocol	Mandatory.
	Defines the kind of protocol to communicate with the EFT.
	Possible values are {ZVT, KRONE}.
	Default=KRONE.
DeviceConnector	The way, the eft is connected to LUIS ePayment. This is a
	mandatory field.



Possible values are {RS232, USB, LAN}.
Default=RS232.

7.1.3 RS232

Key	Description
COMPort	The COM port of the EFT.
	Samples: COM1, /dev/ttyS1.
SerialPortBaudrate	Defines the baudrate.
	Possible values = {9600, 115200}.
	Default=9600.
SerialPortDataBits	Defines the amount of data bits.
	Possible values = {5, 6, 7, 8}.
	Default=8.
SerialPortParity	Defines the parity.
	Possible values = {'N'=none, 'O=odd, 'E'=even, 'M'=mark,
	'S'=space}.
	Default='N'.
SerialPortStopBits	Defines the amount of stop bits.
	Possible values = {1.0, 1.5, 2.0}.
	Default for KRONE protocol = 1.0.
	Default for EFT protocol = 2.0.

7.1.4 USB

USB is currently not supported.

7.1.5 LAN

Key	Description
IPLocal	Mandatory.
	Local IP of the EFT (DHCP is not supported).
	Value of 'NetworkConnection' must be set to 'LAN'.
PortLocal	Mandatory.



	Local port of the EFT (DHCP is not supported).
	Typical values: {ZVT protocol: 20007; KRONE protocol: 22000;
	Ingenico: 5577; CCV: 20007).
	Default= 20007.
IPGateway	Mandatory.
	Gateway IP of EFT (DHCP is not supported).
	Value of 'NetworkConnection' must be set to 'LAN'.
IPSubnetMask	Subnet Mask of EFT (DHCP is not supported).
	DEFAULT=255.255.255.0.
	Value of 'NetworkConnection' must be set to 'LAN'.

7.1.6 Interface device <-> networkProvider

Key	Description
NetworkConnection	Mandatory.
	Definition of the kind of connection to the network provider.
	Possible values are {LAN, ISDN, ISDNviaSeriell}.

7.1.7 ISDN

Key	Description
Call1	Mandatory. 1.ISDN phone number of the networkprovider. Value of 'NetworkConnection' must be set to 'ISDN' or 'ISDNviaSeriell'.
Cal12	Mandatory. 2.Datex-P number of the network provider. Value of 'NetworkConnection' must be set to 'ISDN' or 'ISDNviaSeriell'.
Cal13	Mandatory. 2.ISDN phone number of the networkprovider. Value of 'NetworkConnection' must be set to 'ISDN' or 'ISDNviaSeriell'.
Call4	Mandatory. 2.Datex-P number of the network provider.



	Value of 'NetworkConnection' must be set to 'ISDN' or 'ISDNviaSeriell'.
Cal15	Mandatory. Phone prefix, if EFT is connected to a phone system. Value of 'NetworkConnection' must be set to 'ISDN' or 'ISDNviaSeriell'.
UserData	Specifies the Datex-P connection. Value of 'NetworkConnection' must be set to 'ISDN' or 'ISDNviaSeriell'.

7.1.8 LAN

Key	Description
IP1	Mandatory for KRONE protocol.
	1.IP of the network provider.
	Value of 'NetworkConnection' must be set to 'LAN'.
IP2	Mandatory for KRONE protocol.
	2.IP of the network provider.
	Value of 'NetworkConnection' must be set to 'LAN'.
PORT1	Mandatory for KRONE protocol.
	1.Port of the network provider.
	Value of 'NetworkConnection' must be set to 'LAN'.
PORT2	Mandatory for KRONE protocol.
	2.Port of the network provider.
	Value of 'NetworkConnection' must be set to 'LAN'.

7.1.9 Interface device <-> cardReader

Key	Description
CardReaderConnection	Specifies the way, the card reader is connected to the EFT.
	Possible values are {Controller, PINPad, PC}

7.1.10 Interface device <-> PINPad

	Description
--	-------------



PinpadConnection	Specifies the way, the PINpad is connected to the EFT.
	Possible values are {Controller}

7.1.11 Security

Key	Description
MerchantPIN	Mandatory. The merchant password of the EFT.
ServicePIN	Mandatory. The service password of the EFT.

7.1.12 ePayment settings

Key	Description
Simulation	Set this flag to run LUIS ePayment in simulation mode (without EFT device).
CheckRemovalProtection	Boolean flag to activate (=true) or deactivate (=false) the state request on the PINPad after a payment transaction. Default=false.
DisplayMessages	Configures the EFT to send display messages (=true) or not (=false) during transactions. These display messages are then available in LUIS ePayment, or not. Default=true.

7.1.13 Files

Key	Description
LicenseFile	Mandatory. Defines the full filename of the LUIS ePayment license file. Default = ./LUIS_ePaymentLicense.dat.
LogConfig	Full qualified path to a XML file, which contains the log4j configuration für LUIS ePayment.
MerchantJournal	Filename of the merchant journal. If the file doesn't exist, it will be created. An empty value leads to no merchant journal.



	Default= <empty></empty>
MerchantJournalEncryption	Boolean flag, if merchant journal is encrypted (=true) or not
	(=false).
	Default=false.
PINBlacklist	Internal value. Do not change.

7.2 SharedTerminalServer

7.2.1 Client side

Because the client only has to know the address of the LUIS ePayment SharedTerminalServer, the client side configuration file is very small. It must contain the address of the server and some local path entries for logfiles.

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

Key	Description
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 für LUIS ePayment (see also remark to paths bellow).
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></empty>



	(see also remark to paths bellow)
MerchantJournalEncryption	Boolean flag, if merchant journal is encrypted (=true) or not (=false). Default=false.
SharedTerminalServerIP	Mandatory for sharedTerminalServer. Defines the IP of the machine, where LUIS ePayment SharedTerminalServer is running. If this value is set, LUIS ePayment is running in SharedTerminalServer mode.
SharedTerminalServerPort	Mandatory for sharedTerminalServer. Sets the port of the Java RMI registry, where LUIS ePayment SharedTerminalServer is running. Default= 1099.

Remark to paths:

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 "...").

7.2.2 Server side

The configuration is EFT specific and results in a separate config file. It is a good idea to name these files corresponding to their terminal ID. Each configuration file has the structure of a standalone config file, described in chapter 7.1.