



FASY S.p.A.
Via Tognasca 7
21013 Gallarate (Va) Italy
T + 39 0331 782 900
F + 39 0331 793 720
www.fasy.com
contact@fasy.com

EasyFpu FiscalPrinter OPOS Service Object

Application Programmer's Guide

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1 Purpose

This document is intended to give the specification of the EasyFpu FiscalPrinter Service Object implementation.

This document provides specifications for programming devices for use with Easy UnifiedPOS FiscalPrinter Service Object implementations that is named soEasyFpu.

1.1 UPOS standard version implementation

The current implementation refers to Unified Point of Service specifications v 1.11 that affects fiscal printer implementations.

1.2 UPOS documents

Unified Point of Service (UPOS) Retail Peripheral Architecture:

www.nrf-arts.org/UnifiedPOS/default.htm

2 UPOS introduction

UnifiedPOS is the acronym for Unified Point of Service. It is an architectural specification for application interfaces to point-of-service devices that are used in the retail environment. This standard is both operating system independent and language neutral and defines:

- An architecture for application interface to retail devices.
- A set of retail device behaviors sufficient to support a range of POS solutions.

The UnifiedPOS specification formalizes and documents the underlying retail device architecture, shared by the JavaPOS, OPOS, and POS for .NET standards, in an operating system independent and language neutral manner.

Easy provides driver for the OPOS implementation under Windows operating systems.

The provided service object soEasyFpu is tested under the following operating systems:

- Windows 2000 Professional
- Windows XP Professional SP2
- Windows Vista Ultimate

3 Supported hardware

The soEasyFpu service object supports all the devices based on the UAP4R platform.

4 Prerequisites

The service object soFasyFpu has been developed and tested with the OPOS Common Control objects published by Monroe Consulting Services. They may be downloaded from the website http://www.monroecs.com/oposccos_current.htm.

Easy is not interested to provide control objects with its installation; anyway the version 1.11 of this control for FiscalPrinter (OPOSFiscalPrinter.ocx) is provided with the soFasyFpu distribution and can optionally be installed on the target PC.

5 soFasyFPU installation using setup

Easy provides the soFasyFpu as a setup package containing soFasyFPU service object.

Run `FasyFPUServiceObject-x.y.z-setup.exe` and follow the instructions on each dialog.

6 soFasyFPU manual installation

Easy provides the soFasyFpu as a collection of files too. You must unzip `FasyFPUServiceObject-x.y.z-binaries.zip` and extract service objects, and control objects files.

6.1 Registering service object

Open the command prompt and go to the folder where the service object is installed.

Run the following command:

```
Regsvr32 soFasyFPU.dll
```

6.2 Registering control object

Open the command prompt and go to the folder where the control object is installed.

Run the following command:

```
Regsvr32 OPOSFiscalPrinter.ocx
```

For more informations, please refer to the UPOS documentation.

7 **Configuring service object**

Once installed the service object must be configured. Easy does not provide a configuration utility.

According with the Unified Point of Service (UPOS) Retail Peripheral Architecture the registry path where the service object parameters are located is the following one:

```
HKEY_LOCAL_MACHINE\SOFTWARE\OLEForRetail\
ServiceOPOS\FiscalPrinter\FasyFPU
```

Under this key the following values are used to configure the service object.

Value	Type	Description
Port	REG_SZ	Used to define the communication port. i.e. "Port"="COM1"
BaudRate	REG_DWORD	Used to define the communication speed over the serial line. i.e. "Baudrate"=dword:00009600
LogPath	REG_SZ	Path where to store the log file generated by the service object. i.e. "LogPath"="C:\LogFolder\"
LogEnabled	REG_DWORD	Defines if the log file generation should be enabled. 1: Enable log file 0: disable i.e. "LogEnabled"=dword:00000001

8 **Opening the device**

The device name string that should be provided on the OPOS Open method for the fiscal printer control is the following one:

```
FasyFPU
```

Example: `FiscalPrinterOposControl.Open("FasyFPU")`

9 Properties

soEasyFpu service object supports all properties access according with UPOS specifications. Please refer to those specification to obtain the documentation of all properties and capabilities.

The following table describes a list of possible values for each property. The first column indicates the default value, the second one the admitted values.

PROPERTY	DEFAULT VALUE	ADMITTED VALUES
CapCompareFirmwareVersion	FALSE	n.a.
CapPowerReporting	OPOS_PR_NONE	n.a.
CapStatisticsReporting	FALSE	n.a.
CapUpdateFirmware	FALSE	n.a.
CapUpdateStatistics	FALSE	n.a.
CapAdditionalHeader	TRUE	n.a.
CapAdditionalLines	TRUE	n.a.
CapAdditionalTrailer	FALSE	n.a.
CapAmountAdjustment	TRUE	n.a.
CapAmountNotPaid	TRUE	n.a.
CapChangeDue	TRUE	n.a.
CapCheckTotal	FALSE	n.a.
CapCoverSensor	TRUE	n.a.
CapDoubleWidth	TRUE	n.a.
CapDuplicateReceipt	TRUE	n.a.
CapEmptyReceiptIsVoidable	TRUE	n.a.
CapFiscalReceiptStation	FALSE	n.a.
CapFiscalReceiptType	TRUE	n.a.
CapFixedOutput	FALSE	n.a.
CapHasVatTable	TRUE	n.a.
CapIndependentHeader	TRUE	n.a.
CapItemList	FALSE	n.a.
CapJrnEmptySensor	TRUE	n.a.
CapJrnNearEndSensor	TRUE	n.a.
CapJrnPresent	TRUE	n.a.
CapMultiContractor	FALSE	n.a.
CapNonFiscalMode	TRUE	n.a.
CapOnlyVoidLastItem	TRUE	n.a.
CapOrderAdjustmentFirst	FALSE	n.a.
CapPackageAdjustment	FALSE	n.a.
CapPercentAdjustment	TRUE	n.a.
CapPositiveAdjustment	TRUE	n.a.
CapPositiveSubtotalAdjustment	TRUE	n.a.
CapPostPreLine	TRUE	n.a.
CapPowerLossReport	FALSE	n.a.
CapPredefinedPaymentLines	FALSE	n.a.
CapReceiptNotPaid	TRUE	n.a.
CapRecEmptySensor	TRUE	n.a.
CapRecNearEndSensor	TRUE	n.a.
CapRecPresent	TRUE	n.a.
CapRemainingFiscalMemory	TRUE	n.a.

CapReservedWord	TRUE	n.a.
CapSetCurrency	FALSE	n.a.
CapSetHeader	TRUE	n.a.
CapSetPOSID	TRUE	n.a.
CapSetStoreFiscalID	FALSE	n.a.
CapSetTrailer	TRUE	n.a.
CapSetVatTable	TRUE	n.a.
CapSlpEmptySensor	FALSE	n.a.
CapSlpFiscalDocument	FALSE	n.a.
CapSlpFullSlip	FALSE	n.a.
CapSlpNearEndSensor	FALSE	n.a.
CapSlpPresent	FALSE	n.a.
CapSlpValidation	FALSE	n.a.
CapSubAmountAdjustment	TRUE	n.a.
CapSubPercentAdjustment	TRUE	n.a.
CapSubtotal	TRUE	n.a.
CapTotalizerType	TRUE	n.a.
CapTrainingMode	TRUE	n.a.
CapValidateJournal	FALSE	n.a.
CapXReport	FALSE	n.a.
BinaryConversion	FALSE	n.a.
ActualCurrency	FPTR_AC_EUR	FPTR_AC_BRC The actual currency is Brazilian cruzeiro. FPTR_AC_BGL The actual currency is Bulgarian lev. FPTR_AC_EUR The actual currency is EURO. FPTR_AC_GRD The actual currency is Greek drachma. FPTR_AC_HUF The actual currency is Hungarian forint. FPTR_AC_ITL The actual currency is Italian lira. FPTR_AC_PLZ The actual currency is Polish zloty. FPTR_AC_ROL The actual currency is Romanian leu. FPTR_AC_RUR The actual currency is Russian rouble. FPTR_AC_TRL The actual currency is Turkish lira.
AdditionalHeader	""	n.a.
AdditionalTrailer	""	n.a.
AmountDecimalPlaces	2	n.a.
AsyncMode	FALSE	n.a.
ChangeDue	""	n.a.
CheckTotal	TRUE	n.a.
ContractorId	Not supported, CapMulticontractor is FALSE	n.a.
CountryCode	FPTR_CC_ITALY	FPTR_CC_BRAZIL The Fiscal Printer supports Brazil's fiscal rules. FPTR_CC_GREECE The Fiscal Printer supports Greece's fiscal rules. FPTR_CC_HUNGARY The Fiscal Printer supports Hungary's fiscal rules.

		FPTR_CC_ITALY The Fiscal Printer supports Italy's fiscal rules. FPTR_CC_POLAND The Fiscal Printer supports Poland's fiscal rules. FPTR_CC_TURKEY The Fiscal Printer supports Turkey's fiscal rules. FPTR_CC_RUSSIA The Fiscal Printer supports Russia's fiscal rules. FPTR_CC_BULGARIA The Fiscal Printer supports Bulgaria's fiscal rules. FPTR_CC_ROMANIA The Fiscal Printer supports Romania's fiscal rules.
CoverOpen	FALSE	n.a.
DateType	FPTR_DT_RTC	FPTR_DT_CONF Date of configuration. FPTR_DT_EOD Date of last end of day. FPTR_DT_RESET Date of last reset. FPTR_DT_RTC Real time clock of the Fiscal Printer. FPTR_DT_VAT Date of last VAT change. FPTR_DT_START The date and time that the fiscal day started or of the first fiscal receipt or first fiscal document.
DayOpened	FALSE	n.a.
DescriptionLength	24	n.a.
DuplicateReceipt	FALSE	n.a.
ErrorLevel	FPTR_EL_NONE	n.a.
ErrorOutID	0	n.a.
ErrorState	0	n.a.
ErrorStation	0	n.a.
ErrorString	""	n.a.
FiscalReceiptStation	FPTR_RS_RECEIPT	There is no possibility to change receipt station, CapFiscalReceiptStation is FALSE. Always returns FPTR_PS_RECEIPT
FiscalReceiptType	FPTR_RT_SALES FPTR_RT_REFUND	FPTR_RT_CASH_IN Cash-in receipt FPTR_RT_CASH_OUT Cash-out receipt FPTR_RT_GENERIC Generic receipt FPTR_RT_SALES Retail sales receipt FPTR_RT_SERVICE Service sales receipt FPTR_RT_SIMPLE_INVOICE Simplified invoice receipt FPTR_RT_REFUND Refund sales receipt
FlagWhenIdle	FALSE	n.a.
JrnEmpty	FALSE	n.a.
JrnNearEnd	FALSE	n.a.
MessageLength	30	n.a.
MessageType	FPTR_MT_FREE_TEXT	FPTR_MT_ADVANCE FPTR_MT_ADVANCE_PAID FPTR_MT_AMOUNT_TO_BE_PAID FPTR_MT_AMOUNT_TO_BE_PAID_BACK FPTR_MT_CARD FPTR_MT_CARD_NUMBER FPTR_MT_CARD_TYPE FPTR_MT_CASH

		FPTR_MT_CASHIER FPTR_MT_CASH_REGISTER_NUMBER FPTR_MT_CHANGE FPTR_MT_CHEQUE FPTR_MT_CLIENT_NUMBER FPTR_MT_CLIENT_SIGNATURE FPTR_MT_COUNTER_STATE FPTR_MT_CREDIT_CARD FPTR_MT_CURRENCY FPTR_MT_CURRENCY_VALUE FPTR_MT_DEPOSIT FPTR_MT_DEPOSIT_RETURNED FPTR_MT_DOT_LINE FPTR_MT_DRIVER_NUMB FPTR_MT_EMPTY_LINE FPTR_MT_FREE_TEXT FPTR_MT_FREE_TEXT_WITH_DAY_LIMIT FPTR_MT_GIVEN_DISCOUNT FPTR_MT_LOCAL_CREDIT FPTR_MT_MILEAGE_KM FPTR_MT_NOTE FPTR_MT_PAID FPTR_MT_PAY_IN FPTR_MT_POINT_GRANTED FPTR_MT_POINTS_BONUS FPTR_MT_POINTS_RECEIPT FPTR_MT_POINTS_TOTAL FPTR_MT_PROFITED FPTR_MT_RATE FPTR_MT_REGISTER_NUMB FPTR_MT_SHIFT_NUMBER FPTR_MT_STATE_OF_AN_ACCOUNT FPTR_MT_SUBSCRIPTION FPTR_MT_TABLE FPTR_MT_THANK_YOU_FOR_LOYALTY FPTR_MT_TRANSACTION_NUMB FPTR_MT_VALID_TO FPTR_MT_VOUCHER FPTR_MT_VOUCHER_PAID FPTR_MT_VOUCHER_VALUE FPTR_MT_WITH_DISCOUNT FPTR_MT_WITHOUT_UPLIFT
NumHeaderLines	5	n.a.
NumTrailerLines	0	n.a.
NumVatRates	6	n.a.
PowerNotify	Not accessible because CapPowerReporting is FALSE	n.a.
PostLine	""	n.a.
PredefinedPaymentLines	""	n.a.
PreLine	""	n.a.
PrinterState	FPTR_PS_MONITOR	FPTR_PS_MONITOR FPTR_PS_FISCAL_RECEIPT FPTR_PS_FISCAL_RECEIPT_TOTAL FPTR_PS_FISCAL_RECEIPT_ENDING FPTR_PS_FISCAL_DOCUMENT

		FPTR_PS_FIXED_OUTPUT FPTR_PS_NONFISCAL FPTR_PS_LOCKED FPTR_PS_REPORT
QuantityDecimalPlaces	0	n.a.
QuantityLength	12	n.a.
RecEmpty	FALSE	n.a.
RecNearEnd	FALSE	n.a.
RemainingFiscalMemory	0	n.a.
ReservedWord	"TOTAL"	n.a.
SlipSelection	0	n.a.
SlpEmpty	Not accessible, CapSlpEmptySensor is FALSE	n.a.
SlpNearEnd	Not accessible, CapSlpNearEndSensor is FALSE	n.a.
TotalizerType	FPTR_TT_DAY	FPTR_TT_DOCUMENT Document totalizer FPTR_TT_DAY Day totalizer FPTR_TT_RECEIPT Receipt totalizer FPTR_TT_GRAND Grand totalizer
TrainingModeActive	FALSE	n.a.

10 Methods

This service object implements all methods defined in the UPOS Specification. Some methods are not supported or differs from standard specification:

METHOD	NOTES
Common	
open (logicalDeviceName: string)	
close ()	
claim (timeout: int32)	
release ()	
checkHealth (level: int32)	
clearOutput ()	
directIO (command: int32, inout data: int32, inout obj: object)	
compareFirmwareVersion (firmwareFileName: string, out result: int32)	Unsupported, throws an UposException
resetStatistics (statisticsBuffer: string)	Unsupported, throws an UposException
retrieveStatistics (inout statisticsBuffer: string)	Unsupported, throws an UposException
updateFirmware (firmwareFileName: string)	Unsupported, throws an UposException
updateStatistics (statisticsBuffer: string)	Unsupported, throws an UposException
Specific - Presetting Fiscal	
setCurrency (newCurrency: int32)	Unsupported, throws an UposException
setDate (date: string)	
setHeaderLine (lineNumber: int32, text: string, doubleWidth: boolean)	
setPOSID (POSID: string, cashierID: string)	UPOS specification says: <i>This method can only be called while DayOpened is false</i> . In EasyFpu implementation, the command can be sent when the printer has already begun the fiscal day (see the DayOpened property)
setStoreFiscalID (ID: string)	Unsupported, throws an UposException
setTrailerLine (lineNumber: int32, text: string, doubleWidth: boolean)	Unsupported, throws an UposException
setVatTable ()	
Specific - Fiscal Receipt	
setVatValue (vatID: int32, vatValue: string)	
beginFiscalReceipt (printHeader: boolean)	beginFiscalReceipt supports FPTR_RT_SALES and FPTR_RT_REFUND that corresponds to the Italian "Nota di credito". Opos specifications miss the possibility to specify the mnemonic ("pratica di reso") to print inside the refund receipt. To avoid this, EasyFpu implementation wants the preLine property initialized to a string containing the mnemonic code. If not, the exception E_ILLEGAL is returned.
endFiscalReceipt (printHeader: boolean)	
printDuplicateReceipt ()	
printRecCash (amount: currency)	Unsupported, throws an UposException
printRecItem (description: string, price: currency, quantity: int32, vatInfo: int32, unitPrice: currency, unitName: string)	
printRecItemVoid (description: string, price: currency, quantity: int32, vatInfo: int32, unitPrice: currency, unitName: string)	

printRecItemAdjustment (adjustmentType: int32, description: string, amount: currency, vatInfo: int32)	
printRecItemAdjustmentVoid (adjustmentType: int32, description: string, amount: currency, vatInfo: int32)	
printRecItemFuel (description: string, price: currency, quantity: int32, vatInfo: int32, unitPrice: currency, unitName: string, specialTax: currency, specialTaxName: string)	Unsupported, throws an UposException
printRecItemFuelVoid (description: string, price: currency, vatInfo: int32, specialTax: currency)	Unsupported, throws an UposException
printRecMessage (message: string)	
printRecNotPaid (description: string, amount: currency)	
printRecPackageAdjustment (adjustmentType: int32, description: string, vatAdjustment: string)	Unsupported, throws an UposException
printRecPackageAdjustVoid (adjustmentType: int32, vatAdjustment: string)	Unsupported, throws an UposException
printRecRefund (description: string, amount: currency, vatInfo: int32)	
printRecRefundVoid (description: string, amount: currency, vatInfo: int32)	
printRecSubtotal (amount: currency)	
printRecSubtotalAdjustment (adjustmentType: int32, description: string, amount: currency)	
printRecSubtotalAdjustVoid (adjustmentType: int32, amount: currency)	Unsupported, throws an UposException
printRecTaxID (taxId: string)	Unsupported, throws an UposException
printRecTotal (total: currency, payment: currency, description: string)	
printRecVoid (description: string)	
printRecVoidItem (description: string, amount: currency, quantity: int32, adjustmentType: int32, adjustment: currency, vatInfo: int32):	Deprecated in UPOS specs 1.11
Specific - Fiscal Document	
beginFiscalDocument (documentAmount: int32)	Unsupported, throws an UposException
endFiscalDocument ()	Unsupported, throws an UposException
printFiscalDocumentLine (documentLine: string)	Unsupported, throws an UposException
Specific - Item Lists	
beginItemList (vatID: int32)	Unsupported, throws an UposException
endItemList ()	Unsupported, throws an UposException
verifyItem (itemName: string, vatID: int32)	Unsupported, throws an UposException
Specific - Fiscal Reports	
printPeriodicTotalsReport (date1: string, date2: string)	

printPowerLossReport ()	Unsupported, throws an UposException
printReport (reportType: int32, startNum: string, endNum: string)	Please note that EasyFpu service handles FPTR_RT_ORDINAL as for the recent FPTR_RT_EOD_ORDINAL in the same way.
printXReport ()	
printZReport ()	
Specific - Slip Insertion	
beginInsertion (timeout: int32)	Unsupported, throws an UposException
beginRemoval (timeout: int32)	Unsupported, throws an UposException
endInsertion ()	Unsupported, throws an UposException
endRemoval ()	Unsupported, throws an UposException
Specific - Non-Fiscal	
beginFixedOutput (station: int32, documentType: int32)	Unsupported, throws an UposException
beginNonFiscal ()	
beginTraining ()	
endFixedOutput ()	Unsupported, throws an UposException
endNonFiscal ()	
endTraining ()	
printFixedOutput (documentType: int32, lineNumber: int32, data: string)	Unsupported, throws an UposException
printNormal (station: int32, data: string)	station parameter: The Fiscal Printer station to be used. May be FPTR_S_RECEIPT, FPTR_S_JOURNAL, or FPTR_S_SLIP.
Specific - Data Requests	
getData (dataItem: int32, inout optArgs: int32, inout data: string)	Not fully supported
getDate (inout date: string)	Please refer to DateType property for any limitation
getTotalizer (vatID: int32, optArgs: int32, inout data: string)	The optArgs parameter has one of the following values: FPTR_GT_GROSS FPTR_GT_NET FPTR_GT_DISCOUNT FPTR_GT_DISCOUNT_VOID FPTR_GT_ITEM FPTR_GT_ITEM_VOID FPTR_GT_NOT_PAID FPTR_GT_REFUND FPTR_GT_REFUND_VOID FPTR_GT_SUBTOTAL_DISCOUNT FPTR_GT_SUBTOTAL_DISCOUNT_VOID FPTR_GT_SUBTOTAL_SURCHARGES FPTR_GT_SUBTOTAL_SURCHARGES_VOID FPTR_GT_SURCHARGE FPTR_GT_SURCHARGE_VOID FPTR_GT_VAT FPTR_GT_VAT_CATEGORY
getVatEntry (vatID: int32, optArgs: int32, inout vatRate: int32)	
Specific - Error Corrections	
clearError ()	
resetPrinter ()	

11 Supported events

The EasyFpu implements the Events model as described in the Upos specifications. Some events may not be delivered or some status reporting may not be applicable.

EVENT	NOTES
StatusUpdateEvent	FPTR_SUE_COVER_OPEN FPTR_SUE_COVER_OK FPTR_SUE_JRN_EMPTY FPTR_SUE_JRN_NEAREMPTY FPTR_SUE_JRN_PAPEROK FPTR_SUE_REC_EMPTY FPTR_SUE_REC_NEAREMPTY FPTR_SUE_REC_PAPEROK FPTR_SUE_SLP_EMPTY FPTR_SUE_SLP_NEAREMPTY FPTR_SUE_SLP_PAPEROK FPTR_SUE_JRN_COVER_OPEN FPTR_SUE_JRN_COVER_OK FPTR_SUE_REC_COVER_OPEN FPTR_SUE_REC_COVER_OK FPTR_SUE_SLP_COVER_OPEN FPTR_SUE_SLP_COVER_OK
ErrorEvent	As explained in the UPOS specifications
OutputCompleteEvent	As explained in the UPOS specifications
DirectIOEvent	Not handled, never delivered

12 Result codes

The EasyFpu implementation is compliant with the error reporting specification as described in the Upos specification. In most of cases ErrorString property is valued with a description of the error cause.

13 FasyFpu specifics extensions

FasyFpu defines several special extensions used to extend the standard opos control and to use additional features.

13.1 “Vat/Dept indexing”

The standard Opos specifications for FisclaPrinter does not define a way to address departments; there is only the possibility to address vat rates.

All FiscalPrinter methods where *vatInfo* is used as parameter are compliance with standard OPOS specification: in FasyFpu implementation *CapHasVatTable* is true, so the *vatInfo* parameter is treated as table identifier.

Improvements:

- 1) If you set *vatInfo* parameter as 0 the fiscal operation will affect the VAT EXEMPT totalizer that differs from vat rate 0% (Italian fiscal law specific).
- 2) There is the possibility to operate with department instead of VAT RATES. To address a department you must set the *vatInfo* parameter as 10000 + <number of department>. The valid range is 10001 ÷ (10000 + NUMBER_OF_DEPARTMENTS).

13.2 “Payments indexing”

The *printRecTotal* method works as described in the OPOS specifications: if *description* parameter is a string containing a text, it will be printed on the receipt and the payment amount will be sent to the “cash” slot.

Improvements:

- 1) If *description* parameter is a string containing only a number (i.e. “1”) the number will be handled as payment ID to access the related payment slot inside the fiscal printer non volatile memory. Use “0” to always access the “cash” slot; 1 or greater value to access programmable payment slots. The description printed on the fiscal receipt is the fiscal printer stored one.
- 2) If *description* parameter is a string formatted as “[number]>[description]” the OPOS driver will work in the following way: the [number] will be treated as a payment ID and the [description] as payment description. The amount will be sent to the specified [number] slot and the FPU will print the desired [description].

13.3 “printRecVoidItem” *DEPRECATED*

EasyFpu implementation of printRecVoidItem is able to void an item only, an adjustment on item, or an item and related adjustment.

The method is defined by OPOS specifications as follows:

```
printRecVoidItem ( description: string, amount: currency, quantity: int32,  
                  adjustmentType: int32, adjustment: currency, vatInfo: int32 )
```

Use the *printRecVoidItem* method works as follows:

- 1) To void the discount and the sold item, *description*, *adjustmentType* and *adjustment* parameters must be all valued.
- 2) To void the discount only *adjustment* and *adjustmentType* parameters must be valued (not set to 0) and *description* parameter must be an empty string
- 3) To void the sold item only *description* parameter must be valued (not empty string) and *description*, *adjustmentType*, *adjustment* must not be valued (ste to 0)

13.4 “SetPOSID”

The SetPOSID method works without storing data inside the fiscal printer memory. The data are stored inside the current instance of the service object, so IDs will be printed while the current instance of the driver is running.

Each time the driver is opened, claimed and enabled, the method must be called to set IDs again.

The standard specification says that this method can be invoked only if the fiscal day has begun; EasyFpu implementation has removed this lock.

13.5 “ESC SEQUENCES”

In EasyFpu implementation, each time a standard opos method includes a *description* parameter or you are using properties to print a text (preline, postline, ...) you can put inside the text one or more ESC sequence in order to obtain the desired text effect (double width, boxed, ...), print a bitmap or a barcode.

Affected Methods:

Metodo1

...

Metodo2

Affected Properties:

Property1

...

Property2

Of course some functions depends on the printer state: for example you can't print a bitmap inside a fiscal transaction.

Some text effects are combinable (i.e. "Double width" + "Centered justified")

<i>Name</i>	<i>Sequence Data</i>	<i>Description</i>
Print bitmap	ESC #B	Print bitmap stored inside FPU internal memory. The # char is the bitmap ID.
Feed Lines	ESC #F	Feeds of # lines
Print barcode	ESC #R<T><CODE>	Print barcode of type <T>. The # number is the length of barcode type and code characters I.E. : ESC 12R226443247343
Normal mode	ESC 1C	Prints in normal mode
Double width	ESC 2C	Prints in double width
Double height	ESC 3C	Prints in double height
Half height	ESC 5C	Prints in half height
Boxed text	ESC 6C	Prints a text in boxed mode
Centered justified	ESC cA	The text is centered horizontally
Left justified	ESC lA	The text is left aligned
Right justified	ESC rA	The text is right aligned

14 DirectIO implementation

This chapter describe the Easy DirectIO implementation.

14.1 directIO Method

Syntax **directIO (command: *int32*, inout data: *int32*, inout obj: *object*):**
void { raises-exception }

Parameter	Description
<i>Command</i>	Command number whose specific values are assigned by the UnifiedPOS Service.
<i>Data</i>	An array of one modifiable integer whose specific values or usage vary by <i>command</i> and UnifiedPOS Service.
<i>Obj</i>	Additional data whose usage varies by <i>command</i> and UnifiedPOS Service.

Remarks Communicates directly with the UnifiedPOS Service.
This method provides a means for a UnifiedPOS Service to provide functionality to the application that is not otherwise supported by the standard UnifiedPOS Control for its device category. Depending upon the UnifiedPOS Service's definition of the command, this method may be asynchronous or synchronous. Use of this method will make an application non-portable. The application may, however, maintain portability by performing **directIO** calls within conditional code. This code may be based upon the value of the **DeviceServiceDescription**, **PhysicalDeviceDescription**, or **PhysicalDeviceName** property.

Errors A UposException may be thrown when this method is invoked.

14.2 Drawer opening

Opens the drawer connected to the fiscal printer drawer connector.

Command: DIRECTIO_FPTR_DRAWER_OPEN
Data: Fixed at 0 (in)
Obj: Not used

14.3 Drawer status

Reads the status of the connected drawer.

Command: DIRECTIO_FPTR_DRAWER_GET
Data: Drawer Opened (out); 1: opened, 0: closed
Obj: Not used

14.4 Bitmap loading

Loads a bitmap inside the Fiscal Printer internal memory. The image is stored and in the internal slot defined by BitmapID

Command: DIRECTIO_FPTR_BMPLOAD
Data: BitmapID (in); number of bitmap slot starting from 1
Obj: [in] Bitmap full file name

14.5 Bitmap erase

Erases a bitmap stored inside the FPTR internal memory

Command: DIRECTIO_FPTR_BMPERASE
Data: BitmapID (in); number of bitmap slot to erase starting from 1
Obj: Not used

14.6 Display clear

Clears the customer display view. Please note that this function is available only outside fiscal transaction.

Command: DIRECTIO_FPTR_DY_CLEAR
Data: Not used
Obj: Not used

14.7 Display print text

Prints a text line on the customer display at the specified row. Please note that this function is available only outside fiscal transaction.

Command: DIRECTIO_FPTR_DY_PRINTTEXT
Data[0]: Row number starting from 1
Obj: String message to be printed

14.8 Display load bitmap

Loads a bitmap inside the display bitmap memory slot. Please note that this function is available only outside fiscal transaction.

Command: DIRECTIO_FPTR_DY_BMPLOAD
Data[0]: BitmapID (in); number of bitmap slot to load
Obj: String containing bitmap file name

14.9 Display erase bitmap

Erases a bitmap previously stored inside the display bitmap memory slot. Please note that this function is available only outside fiscal transaction.

Command: DIRECTIO_FPTR_DY_BMPERASE
Data[0]: BitmapID (in); number of bitmap slot to erase
Obj: Not used

14.10 Display show bitmap

Shows a previously stored bitmap on the customer display.

Command: DIRECTIO_FPTR_DY_BMPSHOW
Data[0]: Reserved, must be 0
Data[1]: Reserved, must be 0
Data[2]: BitmapID (in); number of bitmap to show
Obj: Not used

14.11 Electronic journal report

Writes a report of the EJ contents to a file. The input parameters allows to select the type of data and range.

Command: DIRECTIO_FPTR_REPORT_EJ
Data[0]: 0: write file in append
 1: create or rewrite existing file
 2: don't create file: output will be sent to fiscal printer receipt station
Data[1]: EjReportMode (in)
 0: Entire EJ
 1: Generate report between two dates and optionally numbers
 2: Current day
Data[2]: EjReportType (in)
 0: All reports
 1: Z-Closure number
 2: Fiscal ticket number
 3: NonFiscal ticket number
 4: Credit note number
Data[3]: StartDate expressed as yyyy*10000 + mm*100 + dd
Data[4]: EndDate expressed as yyyy*10000 + mm*100 + dd
Data[5]: StartNum
Data[6]: EndNum
Obj: [in] String containing output filename

14.12 X-Report on file

Writes a X-Report contents to a file

Command: DIRECTIO_FPTR_REPORT_X
Data[0]: 0: write file in append
 1: create or rewrite existing file
 2: don't create file: output will be sent to fiscal printer receipt station
Obj: [in] String containing output filename

14.13 Report on file

Writes a report on file. The report is collected from the fiscal printer device.

Command: DIRECTIO_FPTR_REPORT_REQUEST
Data[0]: 0: write file in append
 1: create or rewrite existing file
Data[1]: ReportType (in)
 10: GENERAL_FINANCIAL
 20: DEPTS_ON_DAY
Obj: [in] String containing output filename

14.14 Reset totalizers

Reset periodic totalizers of departments, tenders, and vats without performing zeroset

Command: DIRECTIO_FPTR_RESET_TOTALIZERS
Data: Not used
Obj: Additional text to print after totalizers reset ticket

14.15 Departments/Vat link

Can read the current settings of Departments to Vat links or sends a programming sequence to link Departments to Vat rates.

Command: DIRECTIO_FPTR_DEPARTMENTCFG
Data[0]: WriteMode [in]
 0: Read current links (output will be sent to the Obj string)
 1: Write new links from Obj string
Obj: [in] If Data[0] is 0, Obj will returns the string containing links
 [out] If Data[0] is 1, Obj is a string containing one or more key codes separated by comma char.

The text is formatted in the following way:

"[DEPTID1][VATID1], [DEPTID2][VATID2], ..., [DEPTIDn][VATIDn]"

where:

DEPTID = Department ID from 1 to number of departments

VATID = Vat ID letter: A=VAT#1, B=VAT#2 etc. X=VAT EXEMPT

I.E.: "1A, 2A, 3B, 4X" means that you want to link the following:

DEPT#1 → VAT#1, DEPT#2 → VAT#1, DEPT#3 → VAT#2, DEPT#4 → VAT EXEMPT .

14.16 VISUAL C++ – DIRECTIO DEFINES

#define DIRECTIO_FPTR_DRAWER_OPEN	1000
#define DIRECTIO_FPTR_DRAWER_GET	1001
#define DIRECTIO_FPTR_BMPLOAD	1100
#define DIRECTIO_FPTR_BMPERASE	1102
#define DIRECTIO_FPTR_DY_CLEAR	1301
#define DIRECTIO_FPTR_DY_PRINTTEXT	1302
#define DIRECTIO_FPTR_DY_BMPLOAD	1303
#define DIRECTIO_FPTR_DY_BMPERASE	1304
#define DIRECTIO_FPTR_DY_BMPSHOW	1305
#define DIRECTIO_FPTR_REPORT_EJ	1500
#define DIRECTIO_FPTR_REPORT_X	1501
#define DIRECTIO_FPTR_REPORT_REQUEST	1502
#define DIRECTIO_FPTR_RESET_TOTALIZERS	1600
#define DIRECTIO_FPTR_DEPARTMENTCFG	9001

14.17 VISUAL BASIC – DIRECTIO CONSTANTS DECLARATION

```
Public Const DIRECTIO_FPTR_DRAWER_OPEN = 1000
Public Const DIRECTIO_FPTR_DRAWER_GET = 1001

Public Const DIRECTIO_FPTR_BMPLOAD = 1100
Public Const DIRECTIO_FPTR_BMPERASE = 1102

Public Const DIRECTIO_FPTR_DY_CLEAR = 1301
Public Const DIRECTIO_FPTR_DY_PRINTTEXT = 1302
Public Const DIRECTIO_FPTR_DY_BMPLOAD = 1303
Public Const DIRECTIO_FPTR_DY_BMPERASE = 1304
Public Const DIRECTIO_FPTR_DY_BMPSHOW = 1305

Public Const DIRECTIO_FPTR_REPORT_EJ = 1500
Public Const DIRECTIO_FPTR_REPORT_X = 1501
Public Const DIRECTIO_FPTR_REPORT_REQUEST = 1502

Public Const DIRECTIO_FPTR_RESET_TOTALIZERS = 1600

Public Const DIRECTIO_FPTR_DEPARTMENTCFG = 9001
```

15 Reports record description (DIRECTIO_FPTR_REPORT_REQUEST)

The following is a list of records that can be read from the device invoking the directIO method to request a report from the FPU. The record is store inside the specified file.

15.1 Department report record

NOTE: two records are sent for each department, one record concerns the daily data, the other the period data. The reports contain only the departments daily or period data of which are different from zero. The execution of this interactivity may take a relatively long time.

C02:REPARTO:DPTGRUPPO:NPEZZI:IMPPEZZI:NCLIENTI:NMOD:IMPMOD:NSCONTI:IMPSCONTI:NOFFERTE:
TOTOFFERTE:NRESI:TOTRESI:G/P:OPER:DOC

C02 : Fixed text indicating type of record,
REPARTO : department number, Range: 1 to 250,
DPTGRUPPO : group to which the department belongs, Range: 0-11,
NPEZZI : Number of items sold, or weight if department is programmed for sales by weight,
IMPPEZZI : total amount of items,
NCLIENTI : number of department customers,
NMOD : number of discount/additional charge mode, Range: 1 through 20,
IMPMOD : amount of discounts/additional charges,
NSCONTI : number of automatic discounts.,
IMPSCONTI : amount of automatic discounts,
NOFFERTE : number of special offers applied,
TOTOFFERTE : amount of special offers,
NRESI : number of refunds performed,
TOTRESI : amount of refunds,
G/P : indicates whether the report refers to a daily total (G) or a period total (P),
OPER : code of the active clerk, Range: 01 through 99,
DOC : type of document issued, Range: 0=receipt, 1=invoice,

15.2 Financial report record

CAUTION: due to its length, the financial report is divided into 11 different records identified by a number (0-10). The end of report record is '*', and has the usual format. It is sent after record 10.

C22:0:FST:NCLI:NART:OPER:DOC

0 : record type identifier,
FST : total number of (fiscal and non-fiscal) receipts issued,
NCLI : number of customers served,
NART : number of items sold,
OPER : code of the active clerk, Range : 01 through 99,
DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:1 FINANCIAL REPORT HISTORY RECORD (TOTAL AMOUNTS) - DAILY DATA

C22:1:LORDOBAT:LORDOVEND:NETTOFISC:NORIS:RIPSA:RESTAV:RECRED:GIARIS:OPER:DOC

1 : record type identifier,
LORDOBAT : total gross amount typed-in,
LORDOVEND : total gross amount of sales,
NETTOFISC : total net fiscal amount,
NORIS : totalizer of not cashed-in amounts,
RIPSA : balance recall totalizer,
RESTAV : table change totalizer,
RECRED : charge recovery totalizer,
GIARIS : totalizer of already cashed-in amounts,
OPER : code of the active clerk, Range : 01 through 99,
DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:2 FINANCIAL REPORT HISTORY RECORD (TOTAL VOIDS) - DAILY DATA

C22:2:NANNU:TOTANNU:NSTOR:TOTSTOR:NRESI:TOTRESI:NARR:TOTARR:NSCAN:TOTSCAN:OPER:DOC

2 : record type identifier,
NANNU : number of voids performed,
TOTANNU : amount of voids,
NSTOR : number of past voids performed,
TOTSTOR : amount of past voids,
NRESI : number of refunds performed,
TOTRESI : amount of refunds,
NARR : number of rounding-offs performed,
TOTARR : amount of rounding-offs,
NSCAN : number of receipts voided,
TOTSCAN : amount of voided receipts,
OPER : code of the active clerk, Range : 01 through 99,
DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:3 FINANCIAL REPORT HISTORY RECORD (DISCOUNTS) - DAILY DATA

C22:3:NVA:TOTVA:NOFFERTE:TOTOFFERTE:NVART:TOTVART:NVSUB:TOTVSUB:NDETR:TOTDETR:OPER:DOC

3 : record type identifier,
 NVA : number of automatic price changes,
 TOTVA : amount of automatic price changes,
 NOFFERTE : number of special offers applied,
 TOTOFFERTE : amount of special offers,
 NVART : number of item price changes,
 TOTVART : amount of item price changes,
 NVSUB : number of changes on subtotal,
 TOTVSUB : amount of changes on subtotal,
 NDETR : number of discounts/additional charges operations,
 TOTDETR : total amount of discounts/additional charges,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:4 FINANCIAL REPORT HISTORY RECORD (PAYMENTS) - DAILY DATA

CAUTION: the financial report relevant to payments is divided in 4 records.

C22:4:NPAG1:TOTPA1:NPAG2:TOTPA2:NPAG3:TOTPA3:NPAG4:TOTPA4:NPAG5:TOTPA5:NPAG6:TOTPA6:NPAG7:TOTPA7:NPAG8:TOTPA8: NPAG9:TOTPA9: NPAG10:TOTPA10:OPER:DOC

4 : record type identifier,
 NPAG1 : number of payments performed in form of payment no. 1,
 TOTPA1 : amount of payments performed in form of payment no. 1,
 NPAG2 : number of payments performed in form of payment no. 2,
 TOTPA2 : amount of payments performed in form of payment no. 2,
 NPAG3 : number of payments performed in form of payment no. 3,
 TOTPA3 : amount of payments performed in form of payment no. 3,
 NPAG4 : number of payments performed in form of payment no. 4,
 TOTPA4 : amount of payments performed in form of payment no. 4,
 NPAG5 : number of payments performed in form of payment no. 5,
 TOTPA5 : amount of payments performed in form of payment no. 5,
 NPAG6 : number of payments performed in form of payment no. 6,
 TOTPA6 : amount of payments performed in form of payment no. 6,
 NPAG7 : number of payments performed in form of payment no. 7,
 TOTPA7 : amount of payments performed in form of payment no. 7,
 NPAG8 : number of payments performed in form of payment no. 8,
 TOTPA8 : amount of payments performed in form of payment no. 8,
 NPAG9 : number of payments performed in form of payment no. 9,
 TOTPA9 : amount of payments performed in form of payment no. 9,
 NPAG10 : number of payments performed in form of payment no. 10,
 TOTPA10 : amount of payments performed in form of payment no. 10,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:4:N1:NPAG11:TOTPA11:NPAG12:TOTPA12:NPAG13:TOTPA13:NPAG14:TOTPA14:NPAG15:TOTPA15:NPAG16:TOTPA16:NPAG17:TOTPA17:NPAG18:TOTPA18:NPAG19:TOTPA19:NPAG20:TOTPA20:OPER:DOC

4 : record type identifier,
 N1 : second record, Range : 1 (form of payment no. 11÷form of payment no. 20, if available),
 NPAG11 : number of payments performed in form of payment no. 11, Range : if available,
 TOTPA11 : amount of payments performed in form of payment no. 11, Range : if available,
 NPAG12 : number of payments performed in form of payment no. 12, Range : if available,
 TOTPA12 : amount of payments performed in form of payment no. 12, Range : if available,
 NPAG13 : number of payments performed in form of payment no. 13, Range : if available,

TOTPA13 : amount of payments performed in form of payment no. 13, Range : if available,
 NPAG14 : number of payments performed in form of payment no. 14, Range : if available,
 TOTPA14 : amount of payments performed in form of payment no. 14, Range : if available,
 NPAG15 : number of payments performed in form of payment no. 15, Range : if available,
 TOTPA15 : amount of payments performed in form of payment no. 15, Range : if available,
 NPAG16 : number of payments performed in form of payment no. 16, Range : if available,
 TOTPA16 : amount of payments performed in form of payment no. 16, Range : if available,
 NPAG17 : number of payments performed in form of payment no. 17, Range : if available,
 TOTPA17 : amount of payments performed in form of payment no. 17, Range : if available,
 NPAG18 : number of payments performed in form of payment no. 18, Range : if available,
 TOTPA18 : amount of payments performed in form of payment no. 18, Range : if available,
 NPAG19 : number of payments performed in form of payment no. 19, Range : if available,
 TOTPA19 : amount of payments performed in form of payment no. 19, Range : if available,
 NPAG20 : number of payments performed in form of payment no. 20, Range : if available,
 TOTPA20 : amount of payments performed in form of payment no. 20, Range : if available,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:4:N2:NPAG21:TOTPA21:NPAG22:TOTPA22:NPAG23:TOTPA23:NPAG24:TOTPA24:NPAG25:TOTPA
 G25:NPAG26:TOTPA26:NPAG27:TOTPA27:NPAG28:TOTPA28:NPAG29:TOTPA29:NPAG30:TOTPA30:O
 PER:DOC

4 : record type identifier,
 N2 : third record, Range : 2 (form of payment no. 21÷form of payment no. 30, if available),
 NPAG21 : number of payments performed in form of payment no. 21, Range : if available,
 TOTPA21 : amount of payments performed in form of payment no. 21, Range : if available,
 NPAG22 : number of payments performed in form of payment no. 22, Range : if available,
 TOTPA22 : amount of payments performed in form of payment no. 22, Range : if available,
 NPAG23 : number of payments performed in form of payment no. 23, Range : if available,
 TOTPA23 : amount of payments performed in form of payment no. 23, Range : if available,
 NPAG24 : number of payments performed in form of payment no. 24, Range : if available,
 TOTPA24 : amount of payments performed in form of payment no. 24, Range : if available,
 NPAG25 : number of payments performed in form of payment no. 25, Range : if available,
 TOTPA25 : amount of payments performed in form of payment no. 25, Range : if available,
 NPAG26 : number of payments performed in form of payment no. 26, Range : if available,
 TOTPA26 : amount of payments performed in form of payment no. 26, Range : if available,
 NPAG27 : number of payments performed in form of payment no. 27, Range : if available,
 TOTPA27 : amount of payments performed in form of payment no. 27, Range : if available,
 NPAG28 : number of payments performed in form of payment no. 28, Range : if available,
 TOTPA28 : amount of payments performed in form of payment no. 28, Range : if available,
 NPAG29 : number of payments performed in form of payment no. 29, Range : if available,
 TOTPA29 : amount of payments performed in form of payment no. 29, Range : if available,
 NPAG30 : number of payments performed in form of payment no. 30, Range : if available,
 TOTPA30 : amount of payments performed in form of payment no. 30, Range : if available,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:4:N3:NPAG31:TOTPA31:NPAG32:TOTPA32:NPAG33:TOTPA33:NPAG34:TOTPA34:NPAG35:TOTPA
 G35:NPAG36:TOTPA36:NPAG37:TOTPA37:NPAG38:TOTPA38:NPAG39:TOTPA39:NPAG40:TOTPA40:O
 PER:DOC

4 : record type identifier,
 N3 : fourth record, Range : 3 (form of payment no. 31÷form of payment no. 40, if available),
 NPAG31 : number of payments performed in form of payment no. 31, Range : if available,
 TOTPA31 : amount of payments performed in form of payment no. 31, Range : if available,

NPAG32 : number of payments performed in form of payment no. 32, Range : if available,
 TOTPAG32 : amount of payments performed in form of payment no. 32, Range : if available,
 NPAG33 : number of payments performed in form of payment no. 33, Range : if available,
 TOTPAG33 : amount of payments performed in form of payment no. 33, Range : if available,
 NPAG34 : number of payments performed in form of payment no. 34, Range : if available,
 TOTPAG34 : amount of payments performed in form of payment no. 34, Range : if available,
 NPAG35 : number of payments performed in form of payment no. 35, Range : if available,
 TOTPAG35 : amount of payments performed in form of payment no. 35, Range : if available,
 NPAG36 : number of payments performed in form of payment no. 36, Range : if available,
 TOTPAG36 : amount of payments performed in form of payment no. 36, Range : if available,
 NPAG37 : number of payments performed in form of payment no. 37, Range : if available,
 TOTPAG37 : amount of payments performed in form of payment no. 37, Range : if available,
 NPAG38 : number of payments performed in form of payment no. 38, Range : if available,
 TOTPAG38 : amount of payments performed in form of payment no. 38, Range : if available,
 NPAG39 : number of payments performed in form of payment no. 39, Range : if available,
 TOTPAG39 : amount of payments performed in form of payment no. 39, Range : if available,
 NPAG40 : number of payments performed in form of payment no. 40, Range : if available,
 TOTPAG40 : amount of payments performed in form of payment no. 40, Range : if available,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:5 FINANCIAL REPORT HISTORY RECORD (ISSUED DOCUMENTS) - DAILY DATA
 C22:5:FSF:FTOTSCF:NRIC:TOTRIC:NFAT:TOTFAT:OPER:DOC

5 : record type identifier,
 FSF : number of fiscal receipts issued,
 FTOTSCF : amount of fiscal receipts,
 NRIC : number of remote printer receipts,
 TOTRIC : amount of remote printer receipts,
 NFAT : number of invoices issued,
 TOTFAT : amount of invoices,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:6 FINANCIAL REPORT HISTORY RECORD (RECEIVED ON ACCOUNT) - DAILY DATA

CAUTION: the financial report relevant to received on account amounts is divided in 4 records.

C22:6:NROA1:TOTROA1:NROA2:TOTROA2:NROA3:TOTROA3:NROA4:TOTROA4:NROA5:TOTROA5:NROA6:TOTROA6:NROA7:TOTROA7:NROA8:TOTROA8:NROA9:TOTROA9:NROA10:TOTROA10:OPER:DOC

6 : record type identifier,
 NROA1 : number of received on account operations in form of payment no. 1,
 TOTROA1 : amount received on account in form of payment no. 1,
 NROA2 : number of received on account operations in form of payment no. 2,
 TOTROA2 : amount received on account in form of payment no. 2,
 NROA3 : number of received on account operations in form of payment no. 3,
 TOTROA3 : amount received on account in form of payment no. 3,
 NROA4 : number of received on account operations in form of payment no. 4,
 TOTROA4 : amount received on account in form of payment no. 4,
 NROA5 : number of received on account operations in form of payment no. 5,
 TOTROA5 : amount received on account in form of payment no. 5,
 NROA6 : number of received on account operations in form of payment no. 6,
 TOTROA6 : amount received on account in form of payment no. 6,
 NROA7 : number of received on account operations in form of payment no. 7,
 TOTROA7 : amount received on account in form of payment no. 7,

NROA8 : number of received on account operations in form of payment no. 8,
TOTROA8 : amount received on account in form of payment no. 8,
NROA9 : number of received on account operations in form of payment no. 9,
TOTROA9 : amount received on account in form of payment no. 9,
NROA10 : number of received on account operations in form of payment no. 10,
TOTROA10 : amount received on account in form of payment no. 10,
OPER : code of the active clerk, Range : 01 through 99,
DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:6:N1:NROA11:TOTROA11:NROA12:TOTROA12:NROA13:TOTROA13:NROA14:TOTROA14:NROA15:TOTROA15:NROA16:TOTROA16:NROA17:TOTROA17:NROA18:TOTROA18:NROA19:TOTROA19:NROA20:TOTROA20:OPER:DOC

6 : record type identifier,
N1 : second record, Range : 1 (form of payment no. 11÷form of payment no. 20, if available),
NROA11 : number of received on account operations in form of payment no. 11, Range : if available,
TOTROA11 : amount received on account in form of payment no. 11, Range : if available,
NROA12 : number of received on account operations in form of payment no. 12, Range : if available,
TOTROA12 : amount received on account in form of payment no. 12, Range : if available,
NROA13 : number of received on account operations in form of payment no. 13, Range : if available,
TOTROA13 : amount received on account in form of payment no. 13, Range : if available,
NROA14 : number of received on account operations in form of payment no. 14, Range : if available,
TOTROA14 : amount received on account in form of payment no. 14, Range : if available,
NROA15 : number of received on account operations in form of payment no. 15, Range : if available,
TOTROA15 : amount received on account in form of payment no. 15, Range : if available,
NROA16 : number of received on account operations in form of payment no. 16, Range : if available,
TOTROA16 : amount received on account in form of payment no. 16, Range : if available,
NROA17 : number of received on account operations in form of payment no. 17, Range : if available,
TOTROA17 : amount received on account in form of payment no. 17, Range : if available,
NROA18 : number of received on account operations in form of payment no. 18, Range : if available,
TOTROA18 : amount received on account in form of payment no. 18, Range : if available,
NROA19 : number of received on account operations in form of payment no. 19, Range : if available,
TOTROA19 : amount received on account in form of payment no. 19, Range : if available,
NROA20 : number of received on account operations in form of payment no. 20, Range : if available,
TOTROA20 : amount received on account in form of payment no. 20, Range : if available,
OPER : code of the active clerk, Range : 01 through 99,
DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:6:N2:NROA21:TOTROA21:NROA22:TOTROA22:NROA23:TOTROA23:NROA24:TOTROA24:NROA25:TOTROA25:NROA26:TOTROA26:NROA27:TOTROA27:NROA28:TOTROA28:NROA29:TOTROA29:NROA30:TOTROA30:OPER:DOC

C22:6:N3:NROA31:TOTROA31:NROA32:TOTROA32:NROA33:TOTROA33:NROA34:TOTROA34:NROA35:TOTROA35:NROA36:TOTROA36:NROA37:TOTROA37:NROA38:TOTROA38:NROA39:TOTROA39:NROA40:TOTROA40:OPER:DOC

C22:7 FINANCIAL REPORT HISTORY RECORD (PAID OUT) - DAILY DATA

CAUTION: the financial report relevant to paid out amounts is divided in 4 records.

C22:7:NPO1:TOTPO1:NPO2:TOTPO2:NPO3:TOTPO3:NPO4:TOTPO4:NPO5:TOTPO5:NPO6:TOTPO6:NPO7:TOTPO7:NPO8:TOTPO8:NPO9:TOTPO9:NPO10:TOTPO10:OPER:DOC

7 : record type identifier,
 NPO1 : number of paid out operations in form of payment no. 1,
 TOTPO1 : amount paid out in form of payment no. 1,
 NPO2 : number of paid out operations in form of payment no. 2,
 TOTPO2 : amount paid out in form of payment no. 2,
 NPO3 : number of paid out operations in form of payment no. 3,
 TOTPO3 : amount paid out in form of payment no. 3,
 NPO4 : number of paid out operations in form of payment no. 4,
 TOTPO4 : amount paid out in form of payment no. 4,
 NPO5 : number of paid out operations in form of payment no. 5,
 TOTPO5 : amount paid out in form of payment no. 5,
 NPO6 : number of paid out operations in form of payment no. 6,
 TOTPO6 : amount paid out in form of payment no. 6,
 NPO7 : number of paid out operations in form of payment no. 7,
 TOTPO7 : amount paid out in form of payment no. 7,
 NPO8 : number of paid out operations in form of payment no. 8,
 TOTPO8 : amount paid out in form of payment no. 8,
 NPO9 : number of paid out operations in form of payment no. 9,
 TOTPO9 : amount paid out in form of payment no. 9,
 NPO10 : number of paid out operations in form of payment no. 10,
 TOTPO10 : amount paid out in form of payment no. 10,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:7:N1:NPO11:TOTPO11:NPO12:TOTPO12:NPO13:TOTPO13:NPO14:TOTPO14:NPO15:TOTPO15:NPO16:
 TOTPO16:NPO17:TOTPO17:NPO18:TOTPO18:NPO19:TOTPO19:NPO20:TOTPO20:OPER:DOC

7 : record type identifier,
 N1 : second record, Range : 1 (form of payment no. 11÷form of payment no. 20, if available),
 NPO11 : number of paid out operations in form of payment no. 11, Range : if available,
 TOTPO11 : amount paid out in form of payment no. 11, Range : if available,
 NPO12 : number of paid out operations in form of payment no. 12, Range : if available,
 TOTPO12 : amount paid out in form of payment no. 12, Range : if available,
 NPO13 : number of paid out operations in form of payment no. 13, Range : if available,
 TOTPO13 : amount paid out in form of payment no. 13, Range : if available,
 NPO14 : number of paid out operations in form of payment no. 14, Range : if available,
 TOTPO14 : amount paid out in form of payment no. 14, Range : if available,
 NPO15 : number of paid out operations in form of payment no. 15, Range : if available,
 TOTPO15 : amount paid out in form of payment no. 15, Range : if available,
 NPO16 : number of paid out operations in form of payment no. 16, Range : if available,
 TOTPO16 : amount paid out in form of payment no. 16, Range : if available,
 NPO17 : number of paid out operations in form of payment no. 17, Range : if available,
 TOTPO17 : amount paid out in form of payment no. 17, Range : if available,
 NPO18 : number of paid out operations in form of payment no. 18, Range : if available,
 TOTPO18 : amount paid out in form of payment no. 18, Range : if available,
 NPO19 : number of paid out operations in form of payment no. 19, Range : if available,
 TOTPO19 : amount paid out in form of payment no. 19, Range : if available,
 NPO20 : number of paid out operations in form of payment no. 20, Range : if available,
 TOTPO20 : amount paid out in form of payment no. 20, Range : if available,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:7:N2:NPO21:TOTPO21:NPO22:TOTPO22:NPO23:TOTPO23:NPO24:TOTPO24:NPO25:TOTPO25:NPO26:
TOTPO26:NPO27:TOTPO27:NPO28:TOTPO28:NPO29:TOTPO29:NPO30:TOTPO30:OPER:DOC

7 : record type identifier,
N2 : third record, Range : 2 (form of payment no. 21÷form of payment no. 30, if available),
NPO21 : number of paid out operations in form of payment no. 21, Range : if available,
TOTPO21 : amount paid out in form of payment no. 21, Range : if available,
NPO22 : number of paid out operations in form of payment no. 22, Range : if available,
TOTPO22 : amount paid out in form of payment no. 22, Range : if available,
NPO23 : number of paid out operations in form of payment no. 23, Range : if available,
TOTPO23 : amount paid out in form of payment no. 23, Range : if available,
NPO24 : number of paid out operations in form of payment no. 24, Range : if available,
TOTPO24 : amount paid out in form of payment no. 24, Range : if available,
NPO25 : number of paid out operations in form of payment no. 25, Range : if available,
TOTPO25 : amount paid out in form of payment no. 25, Range : if available,
NPO26 : number of paid out operations in form of payment no. 26, Range : if available,
TOTPO26 : amount paid out in form of payment no. 26, Range : if available,
NPO27 : number of paid out operations in form of payment no. 27, Range : if available,
TOTPO27 : amount paid out in form of payment no. 27, Range : if available,
NPO28 : number of paid out operations in form of payment no. 28, Range : if available,
TOTPO28 : amount paid out in form of payment no. 28, Range : if available,
NPO29 : number of paid out operations in form of payment no. 29, Range : if available,
TOTPO29 : amount paid out in form of payment no. 29, Range : if available,
NPO30 : number of paid out operations in form of payment no. 30, Range : if available,
TOTPO30 : amount paid out in form of payment no. 30, Range : if available,
OPER : code of the active clerk, Range : 01 through 99,
DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:7:N3:NPO31:TOTPO31:NPO32:TOTPO32:NPO33:TOTPO33:NPO34:TOTPO34:NPO35:TOTPO35:NPO36:
TOTPO36:NPO37:TOTPO37:NPO38:TOTPO38:NPO39:TOTPO39:NPO40:TOTPO40:OPER:DOC

7 : record type identifier,
N3 : fourth record, Range : 3 (form of payment no. 31÷form of payment no. 40, if available),
NPO31 : number of paid out operations in form of payment no. 31, Range : if available,
TOTPO31 : amount paid out in form of payment no. 31, Range : if available,
NPO32 : number of paid out operations in form of payment no. 32, Range : if available,
TOTPO32 : amount paid out in form of payment no. 32, Range : if available,
NPO33 : number of paid out operations in form of payment no. 33, Range : if available,
TOTPO33 : amount paid out in form of payment no. 33, Range : if available,
NPO34 : number of paid out operations in form of payment no. 34, Range : if available,
TOTPO34 : amount paid out in form of payment no. 34, Range : if available,
NPO35 : number of paid out operations in form of payment no. 35, Range : if available,
TOTPO35 : amount paid out in form of payment no. 35, Range : if available,
NPO36 : number of paid out operations in form of payment no. 36, Range : if available,
TOTPO36 : amount paid out in form of payment no. 36, Range : if available,
NPO37 : number of paid out operations in form of payment no. 37, Range : if available,
TOTPO37 : amount paid out in form of payment no. 37, Range : if available,
NPO38 : number of paid out operations in form of payment no. 38, Range : if available,
TOTPO38 : amount paid out in form of payment no. 38, Range : if available,
NPO39 : number of paid out operations in form of payment no. 39, Range : if available,
TOTPO39 : amount paid out in form of payment no. 39, Range : if available,
NPO40 : number of paid out operations in form of payment no. 40, Range : if available,
TOTPO40 : amount paid out in form of payment no. 40, Range : if available,
OPER : code of the active clerk, Range : 01 through 99,

DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:8 FINANCIAL REPORT HISTORY RECORD (CASH-IN-DRAWER) - DAILY DATA

CAUTION: the financial report relevant to cash in drawer is divided in 4 records.

C22:8:NDRW1:TOTDRW1:NDRW2:TOTDRW2:NDRW3:TOTDRW3:NDRW4:TOTDRW4:NDRW5:TOTDRW5:NDRW6:TOTDRW6:NDRW7:TOTDRW7:NDRW8:TOTDRW8:NDRW9:TOTDRW9:NDRW10:TOTDRW10:OPER:DOC

8 : record type identifier,

NDRW1 : (number of payments + number of received on account – number of paid out) in form of payment no. 1,

TOTDRW1 : amount in drawer in form of payment no. 1,

NDRW2 : (number of payments + number of received on account – number of paid out) in form of payment no. 2,

TOTDRW2 : amount in drawer in form of payment no. 2,

NDRW3 : (number of payments + number of received on account – number of paid out) in form of payment no. 3,

TOTDRW3 : amount in drawer in form of payment no. 3,

NDRW4 : (number of payments + number of received on account – number of paid out) in form of payment no. 4,

TOTDRW4 : amount in drawer in form of payment no. 4,

NDRW5 : (number of payments + number of received on account – number of paid out) in form of payment no. 5,

TOTDRW5 : amount in drawer in form of payment no. 5,

NDRW6 : (number of payments + number of received on account – number of paid out) in form of payment no. 6,

TOTDRW6 : amount in drawer in form of payment no. 6,

NDRW7 : (number of payments + number of received on account – number of paid out) in form of payment no. 7,

TOTDRW7 : amount in drawer in form of payment no. 7,

NDRW8 : (number of payments + number of received on account – number of paid out) in form of payment no. 8,

TOTDRW8 : amount in drawer in form of payment no. 8,

NDRW9 : (number of payments + number of received on account – number of paid out) in form of payment no. 9,

TOTDRW9 : amount in drawer in form of payment no. 9,

NDRW10 : (number of payments + number of received on account – number of paid out) in form of payment no. 10,

TOTDRW10 : amount in drawer in form of payment no. 10,

OPER : code of the active clerk, Range : 01 through 99,

DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:8:N1:NDRW11:TOTDRW11:NDRW12:TOTDRW12:NDRW13:TOTDRW13:NDRW14:TOTDRW14:NDRW15:TOTDRW15:NDRW16:TOTDRW16:NDRW17:TOTDRW17:NDRW18:TOTDRW18:NDRW19:TOTDRW19:NDRW20:TOTDRW20:OPER:DOC

8 : record type identifier,

N1 : second record, Range : 1 (form of payment no. 11÷form of payment no. 20, if available),

NDRW11 : (number of payments + number of received on account – number of paid out) in form of payment no. 11, Range : if available,

TOTDRW11 : amount in drawer in form of payment no. 11, Range : if available,

NDRW12 : (number of payments + number of received on account – number of paid out) in form of payment no. 12, Range : if available,

TOTDRW12 : amount in drawer in form of payment no. 12, Range : if available,
 NDRW13 : (number of payments + number of received on account – number of paid out) in form of payment no. 13, Range : if available,
 TOTDRW13 : amount in drawer in form of payment no. 13, Range : if available,
 NDRW14 : (number of payments + number of received on account – number of paid out) in form of payment no. 14, Range : if available,
 TOTDRW14 : amount in drawer in form of payment no. 14, Range : if available,
 NDRW15 : (number of payments + number of received on account – number of paid out) in form of payment no. 15, Range : if available,
 TOTDRW15 : amount in drawer in form of payment no. 15, Range : if available,
 NDRW16 : (number of payments + number of received on account – number of paid out) in form of payment no. 16, Range : if available,
 TOTDRW16 : amount in drawer in form of payment no. 16, Range : if available,
 NDRW17 : (number of payments + number of received on account – number of paid out) in form of payment no. 17, Range : if available,
 TOTDRW17 : amount in drawer in form of payment no. 17, Range : if available,
 NDRW18 : (number of payments + number of received on account – number of paid out) in form of payment no. 18, Range : if available,
 TOTDRW18 : amount in drawer in form of payment no. 18, Range : if available,
 NDRW19 : (number of payments + number of received on account – number of paid out) in form of payment no. 19, Range : if available,
 TOTDRW19 : amount in drawer in form of payment no. 19, Range : if available,
 NDRW20 : (number of payments + number of received on account – number of paid out) in form of payment no. 20, Range : if available,
 TOTDRW20 : amount in drawer in form of payment no. 20, Range : if available,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:8:N2:NDRW21:TOTDRW21:NDRW22:TOTDRW22:NDRW23:TOTDRW23:NDRW24:TOTDRW24:NDRW25:
 TOTDRW25:NDRW26:TOTDRW26:NDRW27:TOTDRW27:NDRW28:TOTDRW28:NDRW29:TOTDRW29:NDRW
 30:TOTDRW30:OPER:DOC

8 : record type identifier,
 N2 : third record, Range : 2 (form of payment no. 21÷form of payment no. 30, if available),
 NDRW21 : (number of payments + number of received on account – number of paid out) in form of payment no. 21, Range : if available,
 TOTDRW21 : amount in drawer in form of payment no. 21, Range : if available,
 NDRW22 : (number of payments + number of received on account – number of paid out) in form of payment no. 22, Range : if available,
 TOTDRW22 : amount in drawer in form of payment no. 22, Range : if available,
 NDRW23 : (number of payments + number of received on account – number of paid out) in form of payment no. 23, Range : if available,
 TOTDRW23 : amount in drawer in form of payment no. 23, Range : if available,
 NDRW24 : (number of payments + number of received on account – number of paid out) in form of payment no. 24, Range : if available,
 TOTDRW24 : amount in drawer in form of payment no. 24, Range : if available,
 NDRW25 : (number of payments + number of received on account – number of paid out) in form of payment no. 25, Range : if available,
 TOTDRW25 : amount in drawer in form of payment no. 25, Range : if available,
 NDRW26 : (number of payments + number of received on account – number of paid out) in form of payment no. 26, Range : if available,
 TOTDRW26 : amount in drawer in form of payment no. 26, Range : if available,
 NDRW27 : (number of payments + number of received on account – number of paid out) in form of payment no. 27, Range : if available,
 TOTDRW27 : amount in drawer in form of payment no. 27, Range : if available,

NDRW28 : (number of payments + number of received on account – number of paid out) in form of payment no. 28, Range : if available,
 TOTDRW28 : amount in drawer in form of payment no. 28, Range : if available,
 NDRW29 : (number of payments + number of received on account – number of paid out) in form of payment no. 29, Range : if available,
 TOTDRW29 : amount in drawer in form of payment no. 29, Range : if available,
 NDRW30 : (number of payments + number of received on account – number of paid out) in form of payment no. 30, Range : if available,
 TOTDRW30 : amount in drawer in form of payment no. 30, Range : if available,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:8:N3:NDRW31:TOTDRW31:NDRW32:TOTDRW32:NDRW33:TOTDRW33:NDRW34:TOTDRW34:NDRW35:TOTDRW35:NDRW36:TOTDRW36:NDRW37:TOTDRW37:NDRW38:TOTDRW38:NDRW39:TOTDRW39:NDRW40:TOTDRW40:OPER:DOC

8 : record type identifier,
 N3 : fourth record, Range : 3 (form of payment no. 31÷form of payment no. 40, if available),
 NDRW31 : (number of payments + number of received on account – number of paid out) in form of payment no. 31, Range : if available,
 TOTDRW31 : amount in drawer in form of payment no. 31, Range : if available,
 NDRW32 : (number of payments + number of received on account – number of paid out) in form of payment no. 32, Range : if available,
 TOTDRW32 : amount in drawer in form of payment no. 32, Range : if available,
 NDRW33 : (number of payments + number of received on account – number of paid out) in form of payment no. 33, Range : if available,
 TOTDRW33 : amount in drawer in form of payment no. 33, Range : if available,
 NDRW34 : (number of payments + number of received on account – number of paid out) in form of payment no. 34, Range : if available,
 TOTDRW34 : amount in drawer in form of payment no. 34, Range : if available,
 NDRW35 : (number of payments + number of received on account – number of paid out) in form of payment no. 35, Range : if available,
 TOTDRW35 : amount in drawer in form of payment no. 35, Range : if available,
 NDRW36 : (number of payments + number of received on account – number of paid out) in form of payment no. 36, Range : if available,
 TOTDRW36 : amount in drawer in form of payment no. 36, Range : if available,
 NDRW37 : (number of payments + number of received on account – number of paid out) in form of payment no. 37, Range : if available,
 TOTDRW37 : amount in drawer in form of payment no. 37, Range : if available,
 NDRW38 : (number of payments + number of received on account – number of paid out) in form of payment no. 38, Range : if available,
 TOTDRW38 : amount in drawer in form of payment no. 38, Range : if available,
 NDRW39 : (number of payments + number of received on account – number of paid out) in form of payment no. 39, Range : if available,
 TOTDRW39 : amount in drawer in form of payment no. 39, Range : if available,
 NDRW40 : (number of payments + number of received on account – number of paid out) in form of payment no. 40, Range : if available,
 TOTDRW40 : amount in drawer in form of payment no. 40, Range : if available,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:9 FINANCIAL REPORT HISTORY RECORD (PAYMENTS IN PERIOD)

CAUTION: the financial report relevant to payments in period is divided in 4 records.

C22:9:NPAG1:TOTPA G1:NPAG2:TOTPA G2:NPAG3:TOTPA G3:NPAG4:TOTPA G4:NPAG5:TOTPA G5:NPAG6:TOTPA G6:NPAG7:TOTPA G7:NPAG8:TOTPA G8:NPAG9:TOTPA G9:NPAG10:TOTPA G10:OPER:DOC

9 : record type identifier,

NPAG1 : number of payments performed in form of payment no. 1,
TOTPA G1 : amount of payments performed in form of payment no. 1,
NPAG2 : number of payments performed in form of payment no. 2,
TOTPA G2 : amount of payments performed in form of payment no. 2,
NPAG3 : number of payments performed in form of payment no. 3,
TOTPA G3 : amount of payments performed in form of payment no. 3,
NPAG4 : number of payments performed in form of payment no. 4,
TOTPA G4 : amount of payments performed in form of payment no. 4,
NPAG5 : number of payments performed in form of payment no. 5,
TOTPA G5 : amount of payments performed in form of payment no. 5,
NPAG6 : number of payments performed in form of payment no. 6,
TOTPA G6 : amount of payments performed in form of payment no. 6,
NPAG7 : number of payments performed in form of payment no. 7,
TOTPA G7 : amount of payments performed in form of payment no. 7,
NPAG8 : number of payments performed in form of payment no. 8,
TOTPA G8 : amount of payments performed in form of payment no. 8,
NPAG9 : number of payments performed in form of payment no. 9,
TOTPA G9 : amount of payments performed in form of payment no. 9,
NPAG10 : number of payments performed in form of payment no. 10,
TOTPA G10 : amount of payments performed in form of payment no. 10,
OPER : code of the active clerk, Range : 01 through 99,
DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:9:N1:NPAG11:TOTPA G11:NPAG12:TOTPA G12:NPAG13:TOTPA G13:NPAG14:TOTPA G14:NPAG15:TOTPA G15:NPAG16:TOTPA G16:NPAG17:TOTPA G17:NPAG18:TOTPA G18:NPAG19:TOTPA G19:NPAG20:TOTPA G20:OPER:DOC

9 : record type identifier,

N1 : second record, Range : 1 (form of payment no. 11÷form of payment no. 20, if available),
NPAG11 : number of payments performed in form of payment no. 11, Range : if available,
TOTPA G11 : amount of payments performed in form of payment no. 11, Range : if available,
NPAG12 : number of payments performed in form of payment no. 12, Range : if available,
TOTPA G12 : amount of payments performed in form of payment no. 12, Range : if available,
NPAG13 : number of payments performed in form of payment no. 13, Range : if available,
TOTPA G13 : amount of payments performed in form of payment no. 13, Range : if available,
NPAG14 : number of payments performed in form of payment no. 14, Range : if available,
TOTPA G14 : amount of payments performed in form of payment no. 14, Range : if available,
NPAG15 : number of payments performed in form of payment no. 15, Range : if available,
TOTPA G15 : amount of payments performed in form of payment no. 15, Range : if available,
NPAG16 : number of payments performed in form of payment no. 16, Range : if available,
TOTPA G16 : amount of payments performed in form of payment no. 16, Range : if available,
NPAG17 : number of payments performed in form of payment no. 17, Range : if available,
TOTPA G17 : amount of payments performed in form of payment no. 17, Range : if available,
NPAG18 : number of payments performed in form of payment no. 18, Range : if available,
TOTPA G18 : amount of payments performed in form of payment no. 18, Range : if available,
NPAG19 : number of payments performed in form of payment no. 19, Range : if available,
TOTPA G19 : amount of payments performed in form of payment no. 19, Range : if available,
NPAG20 : number of payments performed in form of payment no. 20, Range : if available,
TOTPA G20 : amount of payments performed in form of payment no. 20, Range : if available,
OPER : code of the active clerk, Range : 01 through 99,
DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:9:N2:NPAG21:TOTPA21:NPAG22:TOTPA22:NPAG23:TOTPA23:NPAG24:TOTPA24:NPAG25:TOTPA25:NPAG26:TOTPA26:NPAG27:TOTPA27:NPAG28:TOTPA28:NPAG29:TOTPA29:NPAG30:TOTPA30:OPER:DOC

9 : record type identifier,
 N2 : third record, Range : 2 (form of payment no. 21÷form of payment no. 30, if available),
 NPAG21 : number of payments performed in form of payment no. 21, Range : if available,
 TOTPA21 : amount of payments performed in form of payment no. 21, Range : if available,
 NPAG22 : number of payments performed in form of payment no. 22, Range : if available,
 TOTPA22 : amount of payments performed in form of payment no. 22, Range : if available,
 NPAG23 : number of payments performed in form of payment no. 23, Range : if available,
 TOTPA23 : amount of payments performed in form of payment no. 23, Range : if available,
 NPAG24 : number of payments performed in form of payment no. 24, Range : if available,
 TOTPA24 : amount of payments performed in form of payment no. 24, Range : if available,
 NPAG25 : number of payments performed in form of payment no. 25, Range : if available,
 TOTPA25 : amount of payments performed in form of payment no. 25, Range : if available,
 NPAG26 : number of payments performed in form of payment no. 26, Range : if available,
 TOTPA26 : amount of payments performed in form of payment no. 26, Range : if available,
 NPAG27 : number of payments performed in form of payment no. 27, Range : if available,
 TOTPA27 : amount of payments performed in form of payment no. 27, Range : if available,
 NPAG28 : number of payments performed in form of payment no. 28, Range : if available,
 TOTPA28 : amount of payments performed in form of payment no. 28, Range : if available,
 NPAG29 : number of payments performed in form of payment no. 29, Range : if available,
 TOTPA29 : amount of payments performed in form of payment no. 29, Range : if available,
 NPAG30 : number of payments performed in form of payment no. 30, Range : if available,
 TOTPA30 : amount of payments performed in form of payment no. 30, Range : if available,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:9:N3:NPAG31:TOTPA31:NPAG32:TOTPA32:NPAG33:TOTPA33:NPAG34:TOTPA34:NPAG35:TOTPA35:NPAG36:TOTPA36:NPAG37:TOTPA37:NPAG38:TOTPA38:NPAG39:TOTPA39:NPAG40:TOTPA40:OPER:DOC

9 : record type identifier,
 N3 : fourth record, Range : 3 (form of payment no. 31÷form of payment no. 40, if available),
 NPAG31 : number of payments performed in form of payment no. 31, Range : if available,
 TOTPA31 : amount of payments performed in form of payment no. 31, Range : if available,
 NPAG32 : number of payments performed in form of payment no. 32, Range : if available,
 TOTPA32 : amount of payments performed in form of payment no. 32, Range : if available,
 NPAG33 : number of payments performed in form of payment no. 33, Range : if available,
 TOTPA33 : amount of payments performed in form of payment no. 33, Range : if available,
 NPAG34 : number of payments performed in form of payment no. 34, Range : if available,
 TOTPA34 : amount of payments performed in form of payment no. 34, Range : if available,
 NPAG35 : number of payments performed in form of payment no. 35, Range : if available,
 TOTPA35 : amount of payments performed in form of payment no. 35, Range : if available,
 NPAG36 : number of payments performed in form of payment no. 36, Range : if available,
 TOTPA36 : amount of payments performed in form of payment no. 36, Range : if available,
 NPAG37 : number of payments performed in form of payment no. 37, Range : if available,
 TOTPA37 : amount of payments performed in form of payment no. 37, Range : if available,
 NPAG38 : number of payments performed in form of payment no. 38, Range : if available,
 TOTPA38 : amount of payments performed in form of payment no. 38, Range : if available,
 NPAG39 : number of payments performed in form of payment no. 39, Range : if available,
 TOTPA39 : amount of payments performed in form of payment no. 39, Range : if available,

NPAG40 : number of payments performed in form of payment no. 40, Range : if available,
TOTPAG40 : amount of payments performed in form of payment no. 40, Range : if available,
OPER : code of the active clerk, Range : 01 through 99,
DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:10 FINANCIAL REPORT HISTORY RECORD (COMMISSIONS ON PAYMENTS)

C22:RTI10:COMPAG1:COMPAG2:COMPAG3:COMPAG4:COMPAG5:COMPAG6:COMPAG7:COMPAG8:COMPAG9
:COMPAG10:OPER:DOC

RTI10 : record type identifier,
COMPAG1 : deduction of commission from form of payment no. 1,
COMPAG2 : deduction of commission from form of payment no. 2,
COMPAG3 : deduction of commission from form of payment no. 3,
COMPAG4 : deduction of commission from form of payment no. 4,
COMPAG5 : deduction of commission from form of payment no. 5,
COMPAG6 : deduction of commission from form of payment no. 6,
COMPAG7 : deduction of commission from form of payment no. 7,
COMPAG8 : deduction of commission from form of payment no. 8,
COMPAG9 : deduction of commission from form of payment no. 9,
COMPAG10 : deduction of commission from form of payment no. 10,
OPER : code of the active clerk, Range : 01 through 99,
DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:RTI10:N1:COMPAG11:COMPAG12:COMPAG13:COMPAG14:COMPAG15:COMPAG16:COMPAG17:COMPAG
18:COMPAG19:COMPAG20:OPER:DOC

RTI10 : record type identifier,
N1 : second record, Range : 1 (form of payment no. 11÷form of payment no. 20, if available),
COMPAG11 : deduction of commission from form of payment no. 11, Range : if available,
COMPAG12 : deduction of commission from form of payment no. 12, Range : if available,
COMPAG13 : deduction of commission from form of payment no. 13, Range : if available,
COMPAG14 : deduction of commission from form of payment no. 14, Range : if available,
COMPAG15 : deduction of commission from form of payment no. 15, Range : if available,
COMPAG16 : deduction of commission from form of payment no. 16, Range : if available,
COMPAG17 : deduction of commission from form of payment no. 17, Range : if available,
COMPAG18 : deduction of commission from form of payment no. 18, Range : if available,
COMPAG19 : deduction of commission from form of payment no. 19, Range : if available,
COMPAG20 : deduction of commission from form of payment no. 20, Range : if available,
OPER : code of the active clerk, Range : 01 through 99,
DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:RTI10:N2:COMPAG21:COMPAG22:COMPAG23:COMPAG24:COMPAG25:COMPAG26:COMPAG27:COMPAG
28:COMPAG29:COMPAG30:OPER:DOC

RTI10 : record type identifier,
N2 : third record, Range : 2 (form of payment no. 21÷form of payment no. 30, if available),
COMPAG21 : deduction of commission from form of payment no. 21, Range : if available,
COMPAG22 : deduction of commission from form of payment no. 22, Range : if available,
COMPAG23 : deduction of commission from form of payment no. 23, Range : if available,
COMPAG24 : deduction of commission from form of payment no. 24, Range : if available,
COMPAG25 : deduction of commission from form of payment no. 25, Range : if available,
COMPAG26 : deduction of commission from form of payment no. 26, Range : if available,
COMPAG27 : deduction of commission from form of payment no. 27, Range : if available,

COMPAG28 : deduction of commission from form of payment no. 28, Range : if available,
 COMPAG29 : deduction of commission from form of payment no. 29, Range : if available,
 COMPAG30 : deduction of commission from form of payment no. 30, Range : if available,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:RTI10:N3:COMPAG31:COMPAG32:COMPAG33:COMPAG34:COMPAG35:COMPAG36:COMPAG37:COMPAG38:COMPAG39:COMPAG40:OPER:DOC

RTI10 : record type identifier,
 N3 : fourth record, Range : 3 (form of payment no. 31÷form of payment no. 40, if available),
 COMPAG31 : deduction of commission from form of payment no. 31, Range : if available,
 COMPAG32 : deduction of commission from form of payment no. 32, Range : if available,
 COMPAG33 : deduction of commission from form of payment no. 33, Range : if available,
 COMPAG34 : deduction of commission from form of payment no. 34, Range : if available,
 COMPAG35 : deduction of commission from form of payment no. 35, Range : if available,
 COMPAG36 : deduction of commission from form of payment no. 36, Range : if available,
 COMPAG37 : deduction of commission from form of payment no. 37, Range : if available,
 COMPAG38 : deduction of commission from form of payment no. 38, Range : if available,
 COMPAG39 : deduction of commission from form of payment no. 39, Range : if available,
 COMPAG40 : deduction of commission from form of payment no. 40, Range : if available,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:11 FINANCIAL REPORT HISTORY RECORD (DISCOUNTS) - DAILY DATA

CAUTION: the financial report relevant to discounts is divided in 2 records.

C22:RTI11:NDISCOUNT1:TOTDISCOUNT1:NDISCOUNT2:TOTDISCOUNT2:NDISCOUNT3:TOTDISCOUNT3:NDISCOUNT4:TOTDISCOUNT4:NDISCOUNT5:TOTDISCOUNT5:NDISCOUNT6:TOTDISCOUNT6:NDISCOUNT7:TOTDISCOUNT7:NDISCOUNT8:TOTDISCOUNT8:NDISCOUNT9:TOTDISCOUNT9:NDISCOUNT10:TOTDISCOUNT10:OPER:DOC

RTI11 : record type identifier,
 NDISCOUNT1 : number of discounts performed in discount no. 1, Range : if available,
 TOTDISCOUNT1 : amount of discounts performed in discount no. 1, Range : if available,
 NDISCOUNT2 : number of discounts performed in discount no. 2, Range : if available,
 TOTDISCOUNT2 : amount of discounts performed in discount no. 2, Range : if available,
 NDISCOUNT3 : number of discounts performed in discount no. 3, Range : if available,
 TOTDISCOUNT3 : amount of discounts performed in discount no. 3, Range : if available,
 NDISCOUNT4 : number of discounts performed in discount no. 4, Range : if available,
 TOTDISCOUNT4 : amount of discounts performed in discount no. 4, Range : if available,
 NDISCOUNT5 : number of discounts performed in discount no. 5, Range : if available,
 TOTDISCOUNT5 : amount of discounts performed in discount no. 5, Range : if available,
 NDISCOUNT6 : number of discounts performed in discount no. 6, Range : if available,
 TOTDISCOUNT6 : amount of discounts performed in discount no. 6, Range : if available,
 NDISCOUNT7 : number of discounts performed in discount no. 7, Range : if available,
 TOTDISCOUNT7 : amount of discounts performed in discount no. 7, Range : if available,
 NDISCOUNT8 : number of discounts performed in discount no. 8, Range : if available,
 TOTDISCOUNT8 : amount of discounts performed in discount no. 8, Range : if available,
 NDISCOUNT9 : number of discounts performed in discount no. 9, Range : if available,
 TOTDISCOUNT9 : amount of discounts performed in discount no. 9, Range : if available,
 NDISCOUNT10 : number of discounts performed in discount no. 10, Range : if available,

TOTDISCOUNT10 : amount of discounts performed in discount no. 10, Range : if available,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

C22:RTI11:NDISCOUNT11:TOTDISCOUNT11:NDISCOUNT12:TOTDISCOUNT12:NDISCOUNT13:TOTDISCOUNT13:NDISCOUNT14:TOTDISCOUNT14:NDISCOUNT15:TOTDISCOUNT15:NDISCOUNT16:TOTDISCOUNT16:NDISCOUNT17:TOTDISCOUNT17:NDISCOUNT18:TOTDISCOUNT18:NDISCOUNT19:TOTDISCOUNT19:NDISCOUNT20:TOTDISCOUNT20:OPER:DOC

RTI11 : record type identifier,
 NDISCOUNT11 : number of discounts performed in discount no. 11, Range : if available,
 TOTDISCOUNT11 : amount of discounts performed in discount no. 11, Range : if available,
 NDISCOUNT12 : number of discounts performed in discount no. 12, Range : if available,
 TOTDISCOUNT12 : amount of discounts performed in discount no. 12, Range : if available,
 NDISCOUNT13 : number of discounts performed in discount no. 13, Range : if available,
 TOTDISCOUNT13 : amount of discounts performed in discount no. 13, Range : if available,
 NDISCOUNT14 : number of discounts performed in discount no. 14, Range : if available,
 TOTDISCOUNT14 : amount of discounts performed in discount no. 14, Range : if available,
 NDISCOUNT15 : number of discounts performed in discount no. 15, Range : if available,
 TOTDISCOUNT15 : amount of discounts performed in discount no. 15, Range : if available,
 NDISCOUNT16 : number of discounts performed in discount no. 16, Range : if available,
 TOTDISCOUNT16 : amount of discounts performed in discount no. 16, Range : if available,
 NDISCOUNT17 : number of discounts performed in discount no. 17, Range : if available,
 TOTDISCOUNT17 : amount of discounts performed in discount no. 17, Range : if available,
 NDISCOUNT18 : number of discounts performed in discount no. 18, Range : if available,
 TOTDISCOUNT18 : amount of discounts performed in discount no. 18, Range : if available,
 NDISCOUNT19 : number of discounts performed in discount no. 19, Range : if available,
 TOTDISCOUNT19 : amount of discounts performed in discount no. 19, Range : if available,
 NDISCOUNT20 : number of discounts performed in discount no. 20, Range : if available,
 TOTDISCOUNT20 : amount of discounts performed in discount no. 20, Range : if available,
 OPER : code of the active clerk, Range : 01 through 99,
 DOC : type of document issued, Range : 0=receipt, 1=invoice,

16 Sample code

Easy does not provide any source code that may be referenced as sample code.

17 Test application

Easy provides an application that can be used to verify the soEasyFPU service object. The application is EasyFPUTest and it's distributed separately from this service object.