

COMMANDS MANUAL

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# **CeFDLL library** **for Custom fiscal printer**



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**UNLESS OTHERWISE SPECIFIED, THE INFORMATION GIVEN IN THIS MANUAL ARE REFERRED TO ALL MODELS IN PRODUCTION AT THE ISSUE DATE OF THIS DOCUMENT.**

#### GENERAL INSTRUCTIONS

CUSTOM S.p.A. declines all responsibility for accidents or damage to persons or property occurring as a result of tampering, structural or functional modifications, unsuitable or incorrect installations, environments not in keeping with the equipment's protection degree or with the required temperature and humidity conditions, failure to carry out maintenance and periodical inspections and poor repair work.

#### GENERAL SAFETY INFORMATION

Your attention is drawn to the following actions that could compromise the characteristics of the product:

- Read and retain the instructions which follow.
- Follow all indications and instructions given on the device.
- Make sure that the surface on which the device rests is stable. If it is not, the device could fall, seriously damaging it.
- Make sure that the device rests on a hard (non-padded) surface and that there is sufficient ventilation.
- Do not fix indissolubly the device or its accessories such as power supplies unless specifically provided in this manual.
- When positioning the device, make sure cables do not get damaged.
- [Only OEM equipment] The equipment must be installed in a kiosk or system that provides mechanical, electrical and fire protection.
- The mains power supply must comply with the rules in force in the Country where you intend to install the equipment.
- Make sure that there is an easily-accessible outlet with a capacity of no less than 10A closely to where the device is to be installed.
- Make sure the power cable provided with the appliance, or that you intend to use is suitable with the wall socket available in the system.
- Make sure the electrical system that supplies power to the device is equipped with a ground wire and is protected by a differential switch.
- Before any type of work is done on the machine, disconnect the power supply.
- Use the type of electrical power supply indicated on the device label.
- These devices are intended to be powered by a separately certified power module having an SELV, non-energy hazardous output. (IEC60950-1 second edition).
- [Only POS equipment] The energy to the equipment must be provided by power supply approved by CUSTOM S.p.A.
- Take care the operating temperature range of equipment and its ancillary components.
- Do not block the ventilation openings.
- Do not insert objects inside the device as this could cause short-circuiting or damage components that could jeopardize printer functioning.
- Do not carry out repairs on the device yourself, except for the normal maintenance operations given in the user manual.
- The equipment must be accessible on these components only to trained, authorized personnel.
- Periodically perform scheduled maintenance on the device to avoid dirt build-up that could compromise the correct, safe operation of the unit.
- Do not touch the head heating line with bare hands or metal objects. Do not perform any operation inside the printer immediately after printing because the head and motor tend to become very hot.
- Use consumables approved by CUSTOM S.p.A.



THE CE MARK AFFIXED TO THE PRODUCT CERTIFY THAT THE PRODUCT SATISFIES THE BASIC SAFETY REQUIREMENTS.

The device is in conformity with the essential Electromagnetic Compatibility and Electric Safety requirements laid down in Directives 2014/30/EU and 2014/35/EU inasmuch as it was designed in conformity with the provisions laid down in the following Standards:

- EN 55032 (*Limits and methods of measurements of radio disturbance characteristics of Information Technology Equipment*)
- EN 55024 (*Information Technology Equipment – Immunity characteristics – Limits and methods of measurement*)
- EN 60950-1 (*Safety of information equipment including electrical business equipment*)

The device is in conformity with the essential requirements laid down in Directives 2014/53/EU about devices equipped with intentional radiators. The Declaration of Conformity and other available certifications can be downloaded from the site [www.custom4u.it](http://www.custom4u.it).



**GUIDELINES FOR THE DISPOSAL OF THE PRODUCT**

The crossed-out rubbish bin logo means that used electrical and electronic products shall NOT be mixed with unsorted municipal waste. For more detailed information about recycling of this product, refer to the instructions of your country for the disposal of these products.

- Do not dispose of this equipment as miscellaneous solid municipal waste, but arrange to have it collected separately.
- The re-use or correct recycling of the electronic and electrical equipment (EEE) is important in order to protect the environment and the wellbeing of humans.
- In accordance with European Directive WEEE 2002/96/EC, special collection points are available to which to deliver waste electrical and electronic equipment and the equipment can also be handed over to a distributor at the moment of purchasing a new equivalent type.
- The public administration and producers of electrical and electronic equipment are involved in facilitating the processes of the re-use and recovery of waste electrical and electronic equipment through the organisation of collection activities and the use of appropriate planning arrangements.
- Unauthorised disposal of waste electrical and electronic equipment is punishable by law with the appropriate penalties.



The format used for this manual improves use of natural resources reducing the quantity of necessary paper to print this copy.

INTRODUZIONE



VISUAL C/C++



VISUAL BASIC



SIGNALLING MESSAGES







# INTRODUCTION

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# 1 PURPOSE OF THE LIBRARY

The purpose of the CeFDLL is to simplify the interface between software applications of the customer and Custom fiscal devices, allowing software developer to work on a “high level” compared with classic procedures of management of a protocol on a low level on serial, ethernet or USB ports. To achieve this goal, the interfaces have been implemented to use the Custom protocol and Custom DLL protocol.

# 2 SYSTEM REQUIREMENTS

To use the CeFDLL library, you must install the runtime components listed below:

Microsoft Visual C++ 2005 Redistributable Package (x86)

Microsoft Visual C++ 2005 Redistributable Package (x64)

## 3 CONFIGURATION FILE

The behaviour of the CeFDLL library can be modified by creating a configuration file with the following characteristics:

Name "Command.ini"

Location Same library folder

Content FORCETOCUSTOM:nLOGACTIVEm

Where

n	DESCRIPTION
0	No emulation of the Custom protocol
1	Allows to emulate the Custom protocol even if you are using the Custom DLL commands

m	DESCRIPTION
0	No saving of log files
1	Enable saving of log files

Example If the "Command.ini" file saved in the library folder contains:  
FORCETOCUSTOM:0LOGACTIVE:1

Custom protocol emulation is not active and the log file saving is enabled.







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# 1 CUSTOM DLL PROTOCOL

List of exported functions available on the Visual C / C ++ library, valid for sending and obtaining information from the device.

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## CEFOpen

Open communication port and set parameters for serial communication

---

[Syntax]                      DWORD CEFOpen (int intCom, DWORD dwBaudRate, BYTE byParity, BYTE byDataBit, BYTE byStopBit, BYTE byFlowControl, LPDWORD lpdwSysError)

[Parameters]	intCom:	serial communication port number
	dwBaudRate:	baud rate
	byParity:	parity
	byDataBit:	data bits
	byStopBit:	stop bits
	byFlowControl:	flow control
	lpdwSysError:	system error returned

## CEFOpenUnSafe

Open communication port, set parameters for serial communication but does not control the device status

---

[Syntax]                      DWORD CEFOpenUnSafe (int intCom, DWORD dwBaudRate, BYTE byParity, BYTE byDataBit, BYTEbyStopBit, BYTE byFlowControl, LPDWORD lpdwSysError)

[Parameters]	intCom:	serial communication port number
	dwBaudRate:	baud rate
	byParity	parity
	byDataBit:	data bits
	byStopBit:	stop bits
	byFlowControl:	flow control
	lpdwSysError:	system error returned



## CEFOpenEth

Open communication and set parameters for ethernet communication

---

[Syntax]	DWORD CEFOpenEth (LPTSTR strEthIp,DWORD dwPort, LPDWORD lpdwSysError)	
[Parameters]	strEthIp:	IP address of the device
	dwPort:	TCP/IP port of the device
	lpdwSysError:	system error returned
[Notes]	- If the ethernet communication has been already established, the function can not be called before a closing operation (error 47)	
	- If a serial\Usb communication has been already established, the function can not be called before a closing operation (error 45)	

## CEFOpenEthUnsafe

Open communication, set parameters for ethernet communication but does not control the device status

---

[Syntax]	DWORD CEFOpenEthUnsafe (LPTSTR strEthIp,DWORD dwPort, LPDWORD lpdwSysError)	
[Parameters]	strEthIp:	IP address of the device
	dwPort:	TCP/IP port of the device
	lpdwSysError:	system error returned
[Notes]	- If the ethernet communication has been already established, the function can not be called before a closing operation (error 47)	
	- If a serial communication has been already established, the function can not be called before a closing operation (error 45)	



## CEFOpenUSB

Open communication for USB communication

---

[Syntax]	DWORD CEFOpenUSB (LPTSTR strPrinterName, LPDWORD lpdwSysError)	
[Parameters]	strPrinterName:	printer's installation name
	lpdwSysError:	system error returned
[Notes]	- If the USB communication has been already established, the function can not be called before a closing operation (error 47)	
	- If a serial\Ethernet communication has been already established, the function can not be called before a closing operation (error 45)	

## CEFOpenUSBUnsafe

Open communication with the device named as strPrinterName, but does not control the device status

---

[Syntax]	DWORD CEFOpenUSBUnsafe (LPTSTR strPrinterName, LPDWORD lpdwSysError)	
[Parameters]	strPrinterName:	printer's installation name
	lpdwSysError:	system error returned
[Notes]	- If the USB communication has been already established, the function can not be called before a closing operation (error 47)	
	- If a serial/ethernet communication has been already established, the function can not be called before a closing operation (error 45)	



## CEFWrite

Send a buffer of bytes to Custom fiscal device through the communication port

---

[Syntax]                DWORD CEFWrite (unsigned char \*lpCommand, LPDWORD lpdwSysError)

[Parameters]           lpCommand:                command to send to device  
                          lpdwSysError:            system error returned

## CEFRead

Read data from device

---

[Syntax]                DWORD CEFRead (unsigned char \*lpMemArea, LPDWORD pdwByteRead, LPDWORD lpdwSysError)

[Parameters]           lpMemArea:                byte read from device  
                          pdwByteRead:            number of byte read  
                          lpdwSysError:            system error returned

## CEFGetVersion

Return the version of the CeFDll.dll

---

[Syntax]                DWORD CEFGetVersion (LPTSTR lpVer, LPDWORD lpdwSysError)

[Parameters]           LpVer:                    version of the CeFDll.dll  
                          lpdwSysError:            system error returned



## CEFClose

Close the communication port previously opened and free memory

---

[Syntax]                DWORD CEFClose (LPDWORD lpdwSysError)

[Parameters]           lpdwSysError:            system error returned



## 2 CUSTOM PROTOCOL

List of exported functions available on the Visual C / C ++ library, valid for sending and obtaining information from the device.

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## CEFOpenCustom

Open communication port and set parameters for serial communication

---

[Syntax]                DWORD CEFOpenCustom (int intCom, DWORD dwBaudRate, BYTE byParity, BYTE byDataBit, BYTE byStopBit, BYTE byFlowControl, LPDWORD lpdwSysError)

[Parameters]	intCom:	serial communication port number
	dwBaudRate:	baud rate
	byParity:	parity
	byDataBit:	data bits
	byStopBit:	stop bits
	byFlowControl:	flow control
	lpdwSysError:	system error returned

## CEFOpenUnSafe

Open communication port, set parameters for serial communication but does not control the device status

---

[Syntax]                DWORD CEFOpenUnSafe (int intCom, DWORD dwBaudRate, BYTE byParity, BYTE byDataBit, BYTEbyStopBit, BYTE byFlowControl, LPDWORD lpdwSysError)

[Parameters]	intCom:	serial communication port number
	dwBaudRate:	baud rate
	byParity	parity
	byDataBit:	data bits
	byStopBit:	stop bits
	byFlowControl:	flow control
	lpdwSysError:	system error returned



## CEFOpenEthCustom

Open communication and set parameters for ethernet communication

---

[Syntax]	DWORD CEFOpenEthCustom (LPTSTR strEthIp,DWORD dwPort, LPDWORD lpdwSysError)	
[Parameters]	strEthIp:	IP address of the device
	dwPort:	TCP/IP port of the device
	lpdwSysError:	system error returned
[Notes]	- If the ethernet communication has been already established, the function can not be called before a closing operation (error 47)	
	- If a serial\Usb communication has been already established, the function can not be called before a closing operation (error 45)	

## CEFOpenEthUnSafe

Open communication, set parameters for ethernet communication but does not control the device status

---

[Syntax]	DWORD CEFOpenEthUnSafe (LPTSTR strEthIp,DWORD dwPort, LPDWORD lpdwSysError)	
[Parameters]	strEthIp:	IP address of the device
	dwPort:	TCP/IP port of the device
	lpdwSysError:	system error returned
[Notes]	- If the ethernet communication has been already established, the function can not be called before a closing operation (error 47)	
	- If a serial communication has been already established, the function can not be called before a closing operation (error 45)	



## CEFOpenUSBCustom

Open communication for USB communication

---

[Syntax]	DWORD CEFOpenUSBCustom (LPTSTR strPrinterName, LPDWORD lpdwSysError)	
[Parameters]	strPrinterName:	printer's installation name
	lpdwSysError:	system error returned
[Notes]	- If the USB communication has been already established, the function can not be called before a closing operation (error 47)	
	- If a serial\Ethernet communication has been already established, the function can not be called before a closing operation (error 45)	

## CEFOpenUSBUnsafe

Open communication with the device named as strPrinterName, but does not control the device status

---

[Syntax]	DWORD CEFOpenUSBUnsafe (LPTSTR strPrinterName, LPDWORD lpdwSysError)	
[Parameters]	strPrinterName:	printer's installation name
	lpdwSysError:	system error returned
[Notes]	- If the USB communication has been already established, the function can not be called before a closing operation (error 47)	
	- If a serial/ethernet communication has been already established, the function can not be called before a closing operation (error 45)	



## CEFWriteCustom

Send a buffer of bytes to Custom fiscal device through the communication port

---

[Syntax]                DWORD CEFWriteCustom (unsigned char \*lpCommand, LPDWORD lpdwSysError)

[Parameters]	lpCommand:	command to send to device
	lpdwSysError:	system error returned

## CEFReadCustom

Read data from device

---

[Syntax]                DWORD CEFReadCustom (unsigned char \*lpMemArea, LPDWORD pdwByteRead, LPDWORD lpdwSysError)

[Parameters]	lpMemArea:	byte read from device
	pdwByteRead:	number of byte read
	lpdwSysError:	system error returned

## CEFGetVersion

Return the version of the CeFDll.dll

---

[Syntax]                DWORD CEFGetVersion (LPTSTR lpVer, LPDWORD lpdwSysError)

[Parameters]	LpVer:	version of the CeFDll.dll
	lpdwSysError:	system error returned



## CEFClose

Close the communication port previously opened and free memory

---

[Syntax]                DWORD CEFClose (LPDWORD lpdwSysError)

[Parameters]           lpdwSysError:            system error returned





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# 1 CUSTOM DLL PROTOCOL

List of exported functions available on the Visual Basic library, valid for sending and obtaining information from the device.

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## VbCEFOpen

Open communication port and set parameters for serial communication

---

[Syntax]	DWORD VbCEFOpen (DWORD intCom, DWORD dwBaudRate, BYTE byParity, BYTE byDataBit, BYTE byStopBit, BYTE byFlowControl, LPDWORD lpdwSysError)	
[Parameters]	intCom:	serial communication port number
	dwBaudRate:	baud rate
	byParity:	parity
	byDataBit:	data bits
	byStopBit:	stop bits
	byFlowControl:	flow control
	lpdwSysError:	system error returned

## VbCEFOpenEth

Open communication and set parameters for ethernet communication

---

[Syntax]	DWORD VbCEFOpenEth (DWORD* dwIp, DWORD dwPort, LPDWORD lpdwSysError)	
[Parameters]	strEthIp:	IP address of the device
	dwPort:	TCP/IP port of the device
	lpdwSysError:	system error returned
[Notes]	- If the ethernet communication has been already established, the function can not be called before a closing operation (error 47)	
	- If a serial\Usb communication has been already established, the function can not be called before a closing operation (error 45)	



## VbCEFOpenUSB

Open communication for USB communication

---

[Syntax]	DWORD VbCEFOpenUSB (DWORD* dwPrinterName, LPDWORD lpdwSysError)	
[Parameters]	strPrinterName:	printer's installation name
	lpdwSysError:	system error returned
[Notes]	- If the USB communication has been already established, the function can not be called before a closing operation (error 47)	
	- If a serial\Ethernet communication has been already established, the function can not be called before a closing operation (error 45)	

## VbCEFWrite

Send a buffer of bytes to Custom fiscal device through the communication port

---

[Syntax]	DWORD VbCEFWrite (DWORD* lpCommand, LPDWORD lpdwSysError)	
[Parameters]	lpCommand:	command to send to device
	lpdwSysError:	system error returned

## VbCEFRead

Read data from device

---

[Syntax]	DWORD VbCEFRead (SAFEARRAY** pBufOut, LPDWORD pdwByteRead, LPDWORD lpdwSysError)	
[Parameters]	lpMemArea:	byte read from device
	pdwByteRead:	number of byte read
	lpdwSysError:	system error returned



## VbCEFGetVersion

Return the version of the CeFdll.dll

---

[Syntax]                DWORD VbCEFGetVersion (SAFEARRAY\*\* pBufOut, LPDWORD lpdwSysError)

[Parameters]           LpVer:                version of the CeFDll.dll  
                         lpdwSysError:        system error returned

## VbCEFClose

Close the communication port previously opened and free memory

---

[Syntax]                DWORD VbCEFClose (LPDWORD lpdwSysError)

[Parameters]           lpdwSysError:        system error returned



## 2 CUSTOM PROTOCOL

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## VbCEFOpenCustom

Open communication port and set parameters for serial communication

---

[Syntax]	DWORD VbCEFOpenCustom (DWORD intCom, DWORD dwBaudRate, BYTE byParity, BYTE byDataBit, BYTE byStopBit, BYTE byFlowControl, LPDWORD lpdwSysError)
[Parameters]	<p>intCom: serial communication port number</p> <p>dwBaudRate:                baud rate</p> <p>byParity:                    parity</p> <p>byDataBit:                  data bits</p> <p>byStopBit:                  stop bits</p> <p>byFlowControl:            flow control</p> <p>lpdwSysError:             system error returned</p>

## VbCEFOpenEthCustom

Open communication and set parameters for ethernet communication

---

[Syntax]	DWORD VbCEFOpenEthCustom (DWORD* dwIp, DWORD dwPort, LPDWORD lpdwSysError)
[Parameters]	<p>strIp:                        IP address of the device</p> <p>dwPort:                    TCP/IP port of the device</p> <p>lpdwSysError:            system error returned</p>
[Notes]	<p>- If the ethernet communication has been already established, the function can not be called before a closing operation (error 47)</p> <p>- If a serial\Usb communication has been already established, the function can not be called before a closing operation (error 45)</p>



## VbCEFOpenUSBCustom

Open communication for USB communication

---

[Syntax]	DWORD VbCEFOpenUSBCustom (DWORD* dwPrinterName, LPDWORD lpdwSysError)	
[Parameters]	strPrinterName:	printer's installation name
	lpdwSysError:	system error returned
[Notes]	- If the USB communication has been already established, the function can not be called before a closing operation (error 47)	
	- If a serial\Ethernet communication has been already established, the function can not be called before a closing operation (error 45)	

## VbCEFWriteCustom

Send a buffer of bytes to Custom fiscal device through the communication port

---

[Syntax]	DWORD VbCEFWriteCustom (DWORD* lpCommand, LPDWORD lpdwSysError)	
[Parameters]	lpCommand:	command to send to device
	lpdwSysError:	system error returned

## VbCEFReadCustom

Read data from device

---

[Syntax]	DWORD VbCEFReadCustom (SAFEARRAY** pBufOut, LPDWORD pdwByteRead, LPDWORD lpdwSysError)	
[Parameters]	lpMemArea:	byte read from device
	pdwByteRead:	number of byte read
	lpdwSysError:	system error returned



## VbCEFGetVersion

Return the version of the CeFdll.dll

---

[Syntax]                DWORD VbCEFGetVersion (SAFEARRAY\*\* pBufOut, LPDWORD lpdwSysError)

[Parameters]           LpVer:                version of the CeFDll.dll  
                         lpdwSysError:        system error returned

## VbCEFClose

Close the communication port previously opened and free memory

---

[Syntax]                DWORD VbCEFClose (LPDWORD lpdwSysError)

[Parameters]           lpdwSysError:        system error returned







# SIGNALLING MESSAGES

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# 1 MESSAGES RETURNED BY FISCAL DEVICE

Referred to Custom Light Protocol User Manual.

## 2 GENERIC SIGNALLING

CODE	NAME	DESCRIPTION
0	NO_ERR	No Error
45	ERROR_SERIAL_OPENED	Impossible to open ethernet communication: serial communication already established
47	ERROR_ALREADY_OPENED	Ethernet communication already established
256	SYSTEM_ERR	System Error
65536	ERR_UNKNOWN_CMD	Command Unknown
65537	ERR_NOTFOUND_CMD	Error opening needed object
65538	ERR_CHK_SUM	Error reading needed object
65540	ERR_DATA_CORR	Data corrupted
65541	ERR_PAR_NOT_OK	Error command parameter Not OK
65542	ERR_PROT_NOT_OK	Communication protocol Not OK
65543	ERR_COMM_NOT_OK	Communication with Device Not OK



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