



Thermal Printer C-56 Windows XP/7/8/10 Driver

S 6 8 4 0 0 2
R4-V2.01-FINAL
2017APR27

Release Note

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Document History

| Revision | Mod. Nr | Status | Description |
|----------|---------------|--------|--|
| 1 | 4 310107 HOR2 | Closed | Initial version: created for C-56 XP-Driver S684002 - Release 1 – Version 1.08 – 31 January 2007 |
| 2 | 4 310508 HOR1 | Closed | 2nd version: created for C-56 XP-Driver S684002 - Release 2 – Version 1.09 – 31 May 2008 |
| 3 | 4 131112 HOR1 | Closed | 3rd version: created for C-56 XP-Driver S684002 - Release 3 – Version 2.00 – 13 November 2012 |
| 4 | 4 270417 HOR1 | Closed | 4th version: created for C-56 XP-Driver S684002 - Release 3 – Version 2.01 – 27 April 2017 |

Applicable Documentation

| Part Nr | Description |
|-----------|---|
| D 684 017 | THERMAL PRINTER C-56 - EMULATION COMMAND SET |
| D 684 021 | Windows XP/2000 Driver for Thermal Printer C-56 |

Comments

| Revision | Comments |
|----------|----------|
| - | - |

Contents

| | |
|--|----|
| Document History | 3 |
| Applicable Documentation | 3 |
| Comments | 3 |
| Contents | 4 |
| 1 Introduction..... | 5 |
| 2 C-56 DRIVER S684002-R1-V1.08-2007JAN31 | 6 |
| 3 C-56 DRIVER S684002-R2-V1.09-2008MAY31 | 19 |
| 4 C-56 DRIVER S684002-R3-V2.00-2012NOV13 | 26 |
| 5 C-56 DRIVER S684002-R4-V2.01-2017APR27 | 31 |

1 Introduction

This release note describes all modifications done to the C-56 printer driver (HENGSTLER part number S684002) for Windows XP, 7, 9 and W10 since the 1st release (R1-V1.08) on 31. January 2007.

The latest released C-56 printer driver is S684003-R4-V2.01-2017APR27

The current C-56 printer driver is regarded to be backward compatible to earlier released and/or beta versions them and replaces them all.

The current C-56 printer driver operational with both USB and RS232 type controllers and all released C-56 firmware version (e.g. V1.30-USB, V1.31-USB, V1.32-USB, V2.00-RS232, V2.01-RS232, V3.00-USB/RS232 or higher), whereas the availability of certain functionality depends on the C-56 firmware version.

2 C-56 DRIVER S684002-R1-V1.08-2007JAN31

Description

The C-56 printer driver S684002-R1-V1.08- 2007JAN31 is developed for Windows-XP/2000 and is operational with all currently (2007JAN31) available C-56 type HENGSTLER printers (USB,RS232) and firmware (V1.30,1.31,V1.32,V2.00,V2.01,V3.00).

List of modifications

=> R1-V1.00 - 2004 NOV 23 – UNRELEASED BETA VERSION

Initial beta version

=> R1-V1.01 - 2004 NOV 26 – UNRELEASED BETA VERSION

User interface redesigned

Port monitor optimized for usage with windows 2000

Registry information regarding print job added

| Component | Version | Description |
|------------|----------|--------------|
| C56PM .dll | R1-V1.01 | Port Monitor |

Thread read/write on C-56 USB port was malfunctioning under W2K. It has been encapsulated between start/end document.

| | | |
|-----------|----------|----------|
| C56TB.dll | R1-V1.01 | Tool Box |
|-----------|----------|----------|

Minor version number now 00..99 instead of 1..9.

| | | |
|-----------|----------|------------|
| C56UD.dll | R1-V1.01 | Uni Driver |
|-----------|----------|------------|

Job status spooling...spooled added if document has [XX] as end of name (e.g. [01]).

| | | |
|-----------|----------|-------------------------------------|
| C56UI.dll | R1-V1.01 | User Interface / Printer Properties |
|-----------|----------|-------------------------------------|

Dialogs slightly optimized for variable font sizes.

Absolute version number of driver (here R1-V1.01) added.

| | | |
|--|----------|------------------------|
| C56.gpd, C56UD.dll, C56PM.dll, C56RC.dll, C56SDK.dll, C56TB.dll, C56UD.dll, C56UI.dll, C56VS.dll, HengstlerC56.INF, HengstlerC56+SDK.INF | R1-V1.01 | Main driver components |
|--|----------|------------------------|

Release and version information updated.

=> R1-V1.02 - 2004 DEC 03 – UNRELEASED BETA VERSION

Correction of driver version information

| Component | Version | Description |
|------------|----------|-----------------------------------|
| C56SDK.dll | R1-V1.02 | Application Programming Interface |

Version number of driver (C56RC.dll) is returned instead of SDK version.

File C56SDK.h reordered.

| | | |
|--|----------|------------------------|
| C56.gpd, C56UD.dll, C56PM.dll, C56RC.dll, C56SDK.dll, C56TB.dll, C56UD.dll, C56UI.dll, C56VS.dll, HengstlerC56.INF, HengstlerC56+SDK.INF | R1-V1.02 | Main driver components |
|--|----------|------------------------|

Release and version information updated.

=> R1-V1.03 - 2004 DEC 20 – UNRELEASED BETA VERSION

Implementation of firmware upload feature

Implementation of font upload feature

Implementation of printout feature

| Component | Version | Description |
|------------|----------|---|
| C56SDK.dll | R1-V1.03 | Application Programming Interface (SDK) |

Firmware/font upload implemented.

| Sample printouts implemented. | | |
|--|----------|---|
| C56TB.dll | R1-V1.03 | Tool Box |
| Firmware/font upload implemented for SDK/UI. | | |
| C56UI.dll | R1-V1.03 | User Interface / Printer Properties |
| Firmware/font upload implemented. | | |
| SDK attached to UI. | | |
| C56.gpd, C56UD.dll, C56PM.dll, C56RC.dll, C56SDK.dll, C56TB.dll, C56UD.dll, C56UI.dll, C56VS.dll, HengstlerC56.INF, HengstlerC56+SDK.INF | R1-V1.03 | Main driver components |
| Release and version information updated. | | |
| => R1-V1.04 - 2005 JAN 12 – UNRELEASED BETA VERSION | | |
| Printer control options extended with variable paper size | | |
| Component | Version | Description |
| C56PM.dll | R1-V1.04 | Print Job Monitor |
| C56Pm_PdPrinterSettings(..) call extended with structure size | | |
| C56Pm_PdPrinterStatus(..) call extended with structure size | | |
| C56Pm_RdPrinterStatus(..) usage of C56STATUS_REVISION corrected | | |
| C56SDK.dll | R1-V1.04 | Application Programming Interface (SDK) |
| Variable paper size added (flag from registry) | | |
| C56Tb_RdPrinterSettings(..) call extended with structure size | | |
| C56TB.dll | R1-V1.04 | Tool Box |
| C56SETTINGS_REVISION revision number changed to 3 (this might have caused an error in R1.03) | | |
| C56SETTINGS extended with variable paper size | | |
| C56Tb_RdPrinterSettings(..) call extended with structure size | | |
| C56Tb_RdPrinterStatus(..) call extended with structure size | | |
| C56Tb_RdPrinterStatus(..) usage of C56STATUS_REVISION corrected | | |
| C56UD.dll | R1-V1.04 | Uni Driver |
| Variable paper size added (flag from registry) | | |
| C56Tb_RdPrinterSettings(..) call extended with structure size | | |
| C56UI.dll | R1-V1.04 | User Interface / Printer Properties |
| Variable paper size added (flag from registry) | | |
| C56Tb_RdPrinterSettings(..) call extended with structure size | | |
| C56Tb_RdPrinterStatus(..) call extended with structure size | | |
| C56.gpd, C56UD.dll, C56PM.dll, C56RC.dll, C56SDK.dll, C56TB.dll, C56UD.dll, C56UI.dll, C56VS.dll, HengstlerC56.INF, HengstlerC56+SDK.INF | R1-V1.04 | Main driver components |
| Release and version information updated. | | |
| => R1-V1.05 - 2005 JAN 18 – UNRELEASED BETA VERSION | | |
| Periodical requests for printer status are only done if the result is inquired by an application | | |
| Component | Version | Description |
| C56PM.dll | R1-V1.05 | Print Job Monitor |
| Structure C56STATUS extended with fRequest | | |
| C56STATUS_REVISION set to 2 | | |
| C56SDK.dll | R1-V1.05 | Application Programming Interface (SDK) |
| Structure C56STATUS extended with fRequest | | |
| Flag fRequest in C56STATUS raised on status request call | | |
| C56TB.dll | R1-V1.05 | Tool Box |
| Structure C56STATUS extended with fRequest | | |

| | | |
|--|----------|---|
| C56UD.dll | R1-V1.05 | Uni Driver |
| Structure C56STATUS extended with fRequest | | |
| C56UI.dll | R1-V1.05 | User Interface / Printer Properties |
| Structure C56STATUS extended with fRequest | | |
| Flag fRequest in C56STATUS raised on status request call | | |
| C56.gpd, C56UD.dll, C56PM.dll, C56RC.dll, C56SDK.dll, C56TB.dll, C56UD.dll, C56UI.dll, C56VS.dll, HengstlerC56.INF, HengstlerC56+SDK.INF | R1-V1.05 | Main driver components |
| Release and version information updated. | | |
| => R1-V1.06 - 2005 FEB 28 – UNRELEASED BETA VERSION | | |
| Extended with upload of configuration data into C-56 flash memory | | |
| Extended with upload of manufactory data into C-56 flash memory | | |
| Extended with upload of character sets into C-56 flash memory | | |
| Upload of C-56 firmware depends on current C-56 firmware version (secure from V3.00) | | |
| Extended with new applications: C56ConfigTool, C56ExhibitionTool, C56ManufTool, C56SdkDemo05, C56SdkDemo06, C56SdkDemo07 | | |
| Extended with new SDK functions for upload of firmware, fonts, etc. | | |
| Extended with new SDK functions for monitoring spooler and print jobs | | |
| Component | Version | Description |
| C56TB.dll | R1-V1.06 | Tool Box |
| C-56 configuration data upload functions added | | |
| C-56 checksum functions added | | |
| C56CONFIG_... structures created | | |
| Configuration upload functions added | | |
| C56Tb_UcStartCharsetUpload(..) extended with parameter wFwVersion (command set changed from FW 2.00) | | |
| C56Tb_UfStartFirmwareUpload(..) extended with parameter wFwVersion (command set changed from FW 2.00) | | |
| C56SETTINGS_REVISION set to 3 | | |
| C56SETTINGS extended with firmware version (C56SETTINGS_REVISION 3) | | |
| C56SETTINGS default final paper feed on with 20 mm | | |
| Module C56TbUploadBinary added for upload of binary files | | |
| Function C56Tb_LcSetHardReset(..) added | | |
| C56SDK.dll | R1-V1.06 | Application Programming Interface (SDK) |
| C56Sdk_DmAddDocumentInitial/FinalSettings(..) corrected (had been exchanged) | | |
| Character-Set printout header corrected | | |
| Function C56Sdk_PmSetProperties(...) added | | |
| Function C56Sdk_PmGetProperties(...) added | | |
| Function C56Sdk_PmIsSpoolerEmpty(...) added | | |
| Function C56Sdk_PmUploadCharset(...) retrieves FW version from registry | | |
| Function C56Sdk_PmUploadFirmware(...) retrieves FW version from registry | | |
| Function C56Sdk_PsPrintoutPaperfeed(..) feed paper backwards and forwards | | |
| Function C56Sdk_DmPrintDocument2(..) added (no job number) | | |
| Function C56Sdk_PmGetSpoolerJobCount(..) added | | |
| Function C56Sdk_PmClearSpooler(..) added | | |
| Function C56Sdk_PsPrintoutPrinterInfo(..) added, replaces C56Sdk_PsPrintoutFirmwareVersion(..) | | |
| Function C56Sdk_PmUploadFirmware2 (...) added, which contains FW version to load onto | | |
| C56UI.dll | R1-V1.06 | User Interface / Printer Properties |
| Versions of updated modules set to 1.06 | | |
| Upload feature tab extended with firmware version | | |
| C56RC.dll | R1-V1.06 | Driver resource / version info |

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|--|----------------|---|
| Version number changed to 1.06 | | |
| C56VS.dll | R1-V1.06 | Vendor Setup |
| Application C56SdkDemo05 added | | |
| Application C56SdkDemo06 added | | |
| Application C56SdkDemo07 added | | |
| C56SdkDemo05.exe | R1-V1.00 | SDK Demo Application |
| New demo application for continuous ticket printout | | |
| C56SdkDemo06.exe | R1-V1.00 | SDK Demo Application |
| New demo application for load/save properties | | |
| C56SdkDemo07.exe | R1-V1.00 | SDK Demo Application |
| New demo application for upload of binary files | | |
| C56SdkDemo04.exe | R1-V1.01 | SDK Demo Application |
| Version number of actual firmware added for upload of font & firmware | | |
| C56.gpd, C56UD.dll, C56PM.dll, C56RC.dll, C56SDK.dll, C56TB.dll, C56UD.dll, C56UI.dll, C56VS.dll, HengstlerC56.INF, HengstlerC56+SDK.INF | R1-V1.06 | Main driver components |
| Release and version information updated. | | |
| => R1-V1.07 - 2005 MAR 21 – UNRELEASED BETA VERSION | | |
| C-56 configuration parameter for RS232 control flow limited to hardware | | |
| Extended with new SDK functions for monitoring print jobs | | |
| Extended with new demo application: C56SdkDemo08 | | |
| Component | Version | Description |
| C56TB.dll | R1-V1.07 | Tool Box |
| C-56 serial configuration limited to hardware protocol only | | |
| Structure C56STATUS extended with bJobNrConfirmed | | |
| Structure C56STATUS extended with szFwVersion | | |
| C56STATUS_REVISION set to 3 | | |
| C56SDK.dll | R1-V1.07 | Application Programming Interface (SDK) |
| Function C56Sdk_PmGetJobNrConfirmed(...) added | | |
| C56PM_FONT_MAG_2X, C56PM_FONT_MAG_3X, C56PM_FONT_MAG_4X added to C56_PRINT_MODE | | |
| C56SR_STATE_VERSION added to C56_STATUS_REQUEST | | |
| Function C56Sdk_PmGetFwVersion(...) added (from V2.0X) | | |
| C56ConfigTool | R1-V1.01 | C-56 Printer Configuration Tool |
| C-56 serial configuration limited to hardware protocol only | | |
| C56ManufTool | R1-V1.01 | C-56 Printer Manufactory Tool |
| C-56 serial configuration limited to hardware protocol only | | |
| C56PM.dll | R1-V1.07 | Print Job Language Monitor |
| Error in thread monitoring (exit thread) corrected. Long waiting time for settings popup and other might be solved by this modification | | |
| Structure C56STATUS extended with bJobNrConfirmed | | |
| Structure C56STATUS extended with szFwVersion | | |
| C56SdkDemo08.exe | R1-V1.00 | SDK Demo Application |
| New demo application for load/save of escape commands | | |
| C56.gpd, C56UD.dll, C56PM.dll, C56RC.dll, C56SDK.dll, C56TB.dll, C56UD.dll, C56UI.dll, C56VS.dll, HengstlerC56.INF, HengstlerC56+SDK.INF | R1-V1.07 | Main driver components |
| Release and version information updated. | | |

=> R1-V1.08 - 2007 JAN 31 – RELEASED FINAL VERSION

C-56 configuration parameter for RS232 control flow limited to hardware
 Extended with new SDK functions for document handling
 Extended with new SDK functions for new C-56 emulation commands
 Extended with new SDK functions for wide character sets (e.g. Chinese/Korean)
 Extended with new controls for C56-EXTENDED printers, which have a cutter.
 Removal of specific applications: C56SdkDemo04, C56SdkDemo07
 Extended with new applications: C56ExhibitionTool2006, C56CutterDemoTool,
 C56PrintTerminal, C56SpeedTestTool, C56SdkDemo10, C56UploadTool
 Extended with new components: C56TB2 (DLL)
 Implementation of horizontal/vertical data compression for GDI printing

| Component | Version | Description |
|---|----------|---|
| C56SDK.dll | R1-V1.08 | Application Programming Interface (SDK) |
| C56Sdk_DmAddDocumentData now adds to end of last data part | | |
| Version number changed to 1.08 | | |
| Function C56Sdk_PmUploadWideCharSet(...) added | | |
| Type C56_WIDECHARSET_TYPE added | | |
| Function C56Sdk_PsPrintoutWideCharSet(..) added | | |
| Function C56Sdk_DcAddWideCharSet(..) added | | |
| Function C56Sdk_DcAddRegImgDef(..) parameter corrected | | |
| Function C56Sdk_DcAddDHisPreBurnFac(..) added | | |
| Function C56Sdk_DcAddBurnTimeCorr(...) added | | |
| Type C56_FIRMWARE_RELEASE added | | |
| Function C56Sdk_DcAddMultiStrobeFac(...) added | | |
| Function C56Sdk_DcAddBarCodeSubTitle(...) added | | |
| Function C56Sdk_PmUploadFirmware2(..) deleted | | |
| Function C56Sdk_PmUploadFirmware(..) extended with wFwVersion | | |
| Function C56Sdk_PmUploadCharSet(..) extended with wFwVersion | | |
| Function C56Sdk_PmUploadWideCharSet(..) extended with wFwVersion | | |
| Extended with wide character 20X20 Korean font | | |
| Function C56Sdk_DcAddPositionStampSet(...) added | | |
| Function C56Sdk_DcAddPositionStampFeed(...) added | | |
| Function C56Sdk_PioPrinterOpen(...) added | | |
| Function C56Sdk_PioPrinterClose(...) added | | |
| Function C56Sdk_PioPrinterRead(...) added | | |
| Function C56Sdk_PioPrinterReadClear(...) added | | |
| Function C56Sdk_PioPrinterReadWrite(...) added | | |
| Function C56Sdk_PmUploadFirmware(...) removed | | |
| Function C56Sdk_PmUploadCharSet(...) removed | | |
| Function C56Sdk_PmUploadWideCharSet(...) removed | | |
| Function C56Sdk_PmUploadBinary(...) removed | | |
| Function C56Sdk_DcAddFlashWriteProtect(...) added | | |
| Function C56Sdk_DcAddCutterCommand(...) added | | |
| Function C56Sdk_DcAddHostControlCommand(...) added | | |
| Structure C56_STATUS_RESPONSE extended with C56SR_PRINTER_CUSTFLAG1/2 | | |
| Memory leak bug in C56Sdk_DmEndDocument(...) resolved | | |
| C56TB.dll | R1-V1.08 | Tool Box |
| C56SETTINGS extended with szPathWideCharSet24X24 | | |
| C56SETTINGS_REVISION set to 4 | | |
| Function C56Tb_UwcStartWideCharSetUpload(...) added | | |

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| Function C56Tb_UwcGetWideCharsetData(...) added | | |
| Function C56Tb_UwcEndWideCharsetUpload(...) added | | |
| Function C56Tb_LcSetWideCharset(...) added | | |
| Function C56Tb_LcSetDHisPreBurnFac(...) added | | |
| Function C56Tb_UcfStartConfigUpload2(...) added (for firmware 3.00) | | |
| Function C56Tb_LcSetBurnTimeCorr(...) added | | |
| C56CONFIGDATA_X set to revision 2 | | |
| Function C56Tb_LcSetExtRegCharDef(...) number of characters sent corrected | | |
| C56SETTINGS extended with wGraphicCompression | | |
| Solved the "last bytes lost in firmware upload" bug | | |
| Function C56Tb_LcSetMultiStrobeFac(...) added | | |
| Function C56Tb_LcSetBarCodeSubTitle(...) added | | |
| Flash area for firmware, fonts, manufdata, configdata depend on FW version (1.30..1.99, 2.00..3.00d,3.00e..) | | |
| Function C56Tb_UcStartCharsetUpload(..) extended with dwFwVersion | | |
| Function C56Tb_UmfStartManufUpload(...) extended with dwFwVersion | | |
| Function C56Tb_UcfStartConfigUpload(...) extended with dwFwVersion | | |
| Function C56Tb_UcfStartConfigUpload2(...) extended with dwFwVersion | | |
| Modified upload of FW, char sets, etc. in 3.00 due to flash reorganization | | |
| Function C56Tb_LcGetStatusInfo(...) handles negative temperatures | | |
| Extended with wide character upload of 20X20 korean font | | |
| Function C56Tb_LcSetPositionStampSet(...) added | | |
| Function C56Tb_LcSetPositionStampFeed(...) added | | |
| Calls to OpenFile(...) replaced by CreateFile(...) | | |
| Function C56Tb_LcSetEscapeCmd(...) extended (as in Hpd05c) | | |
| Function C56Tb_LmMemAllocStrWc2Mb(...) added | | |
| Function C56Tb_LmAllocStrCat(...) added | | |
| Functions C56Tb_Prt....(...) added | | |
| C56SETTINGS_REVISION set to 5 (path to files used for upload removed) | | |
| Configuration data may contain flow control software/none for firmware version 3.00 or up | | |
| Function C56Tb_LcSetFlashWriteProtect(...) added | | |
| Function C56Tb_LcSetCutterCommand(...) added | | |
| Function C56Tb_LcSetHostControlCommand(...) added | | |
| C56SETTINGS extended with cutter control fag | | |
| C56SETTINGS_REVISION set to 6 (cutter control fag added) | | |
| Function C56Tb_UcfStartConfigUpload2(...) extended with customer flags | | |
| C56SETTINGS extended with horizontal and vertical compressed | | |
| C56PM.dll | R1-V1.08 | Print Job Language Monitor |
| C56SETTINGS extended with szPathWideCharset24X24 | | |
| C56SETTINGS_REVISION set to 4 | | |
| C56SETTINGS extended with wGraphicCompression | | |
| C56SETTINGS_REVISION set to 5 (path to files used for upload removed) | | |
| C56SETTINGS extended with cutter control fag | | |
| C56SETTINGS_REVISION set to 6 (cutter control fag added) | | |
| C56SdkDemo01.exe | R1-V1.01 | SDK Demo Application |
| Irrelevant icons removed from resource file | | |
| C56SdkDemo02.exe | R1-V1.01 | SDK Demo Application |
| Irrelevant icons removed from resource file | | |
| C56SdkDemo03.exe | R1-V1.01 | SDK Demo Application |
| Irrelevant icons removed from resource file | | |
| C56SdkDemo04.exe | R1-V1.01 | SDK Demo Application |

| | | |
|---|----------|-------------------------------------|
| Irrelevant icons removed from resource file | | |
| C56SdkDemo04.exe | R1-V1.02 | SDK Demo Application |
| Irrelevant icons removed from resource file | | |
| Added firmware version to SDK calls | | |
| No longer available -> replaced by C56UploadTool | | |
| C56SdkDemo05.exe | R1-V1.01 | SDK Demo Application |
| Irrelevant icons removed from resource file | | |
| C56SdkDemo06.exe | R1-V1.01 | SDK Demo Application |
| Irrelevant icons removed from resource file | | |
| C56SdkDemo07.exe | R1-V1.01 | SDK Demo Application |
| Irrelevant icons removed from resource file | | |
| No longer available -> replaced by C56UploadTool | | |
| C56SdkDemo08.exe | R1-V1.01 | SDK Demo Application |
| Irrelevant icons removed from resource file | | |
| C56SdkDemo09.exe | R1-V1.00 | SDK Demo Application |
| New demo application demonstrating registered images | | |
| C56SdkDemo10.exe | R1-V1.00 | SDK Demo Application |
| New demo application demonstrating direct I/O with printer through SDK | | |
| C56ChinaBin2Bmp.exe | R1-V1.00 | Helper Application |
| New helper application to convert binary chinese file to a wide character bitmap file | | |
| C56ExhibitionTool.exe | R1-V1.01 | Demonstration Tool |
| Irrelevant icons removed from resource file | | |
| C56ManufTool | R1-V1.02 | C-56 Printer Manufactory Tool |
| Irrelevant icons removed from resource file | | |
| C56ConfigTool | R1-V1.02 | C-56 Printer Configuration Tool |
| Modifications for firmware 3.00 | | |
| - Dot history burn factor | | |
| - Wide character index | | |
| - Customer product/serial number added | | |
| - Burn time corrections added | | |
| - Multi strobing added | | |
| Extended with wide characters 20x20 KS5601/STANDARD | | |
| Config data may contain flow control software/none for firmware version 3.00 or up | | |
| Customer status flags added | | |
| C56UI.dll | R1-V1.08 | User Interface / Printer Properties |
| Dialog IDD_DEVICE_PRINTQUALITYANDSPEED extended with check box for RLE8 compression | | |
| New demo application demonstrating wide character font upload and printout | | |
| Upload of firmware and fonts depend of FW version (1.30..1.99, 2.00..3.00d,3.00e..) | | |
| Paper state depends of firmware version (< 3.00, >= 3.00) | | |
| User Interface Data mixup with multiple printers corrected | | |
| Removal of trailing blanks also in landscape | | |
| Extended with wide character upload of 20X20 korean font | | |
| Upload tab removed (use C56UploadTool instead) | | |
| Cutter control buttons added to printer feature tab | | |
| Cutter control options buttons added to paper control tab | | |
| Horizontal/vertical data compression added | | |
| Printer status dialog extended with customer flags | | |
| C56VS.dll | R1-V1.08 | Vendor Setup |
| C56SdkDemo09 added | | |
| C56SdkDemo10 added | | |
| C56UnInstaller tool added | | |
| C56ConfigTool added | | |
| C56ExhibitionTool added | | |

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|--|----------|------------------------|
| C56SdkDemo04 removed | | |
| C56SdkDemo07 removed | | |
| C56CutterDemoTool added | | |
| C56PrintTerminal added | | |
| C56SpeedTestTool added | | |
| C56UploadTool added | | |
| C56SdkDemo09 added | | |
| C56SdkDemo10 added | | |
| C56ExhibitionTool2006 added | | |
| C56UD.dll | R1-V1.08 | Uni Driver |
| Removal of trailing blanks also in landscape | | |
| Horizontal/vertical data compression added | | |
| C56+Cutter: control of cutter after printout added | | |
| HengstlerC56.INF HengstlerC56+SDK.INF | R1-V1.08 | Installation Files |
| C56SdkDemo09 added | | |
| C56SdkDemo10 added | | |
| C56SdkDemo04 removed (upload only by upload tool) | | |
| C56CutterDemoTool added | | |
| C56PrintTerminal added | | |
| C56SpeedTestTool added | | |
| C56UploadTool added | | |
| C56ExhibitionTool2006 added | | |
| C56TB2 | R1-V1.08 | Tool Box 2 |
| New toolbox library, used by tools only | | |
| C56CutterDemoTool | R1-V1.00 | Demonstration Tool |
| New tool for C-56 cutter (X-56) demonstration | | |
| C56PrintTerminal | R1-V1.00 | Evaluation Tool |
| New tool for evaluation of C-56 emulation commands | | |
| C56SpeedTestTool | R1-V1.00 | Test Tool |
| New tool for testing C-56 print speed | | |
| C56UploadTool | R1-V1.00 | Upload Tool |
| New tool for uploading firmware and fonts into the C56 | | |
| C56ExhibitionTool2006 | R1-V1.00 | Exhibition tool |
| New exhibition tool that is used for 2006 exhibitions | | |
| C56.gpd, C56UD.dll, C56PM.dll, C56RC.dll, C56SDK.dll, C56TB.dll, C56UD.dll, C56UI.dll, C56VS.dll, HengstlerC56.INF, HengstlerC56+SDK.INF | R1-V1.08 | Main driver components |
| Release and version information updated. | | |

Package overview

```

|   C56-S684002-WindowsXpDriver-R1-V1_08-2007JAN31.zip
|   D-684-004-C56-WindowsXpDriver_ReleaseNote.pdf
|   HengstlerC56.INF
|
+---Driver
|   \---i386
|       C56.gpd
|       C56PM.dll
|       C56RC.dll
|       C56SDK.dll
|       C56TB.dll
|       C56UD.dll
|       C56UD.ini

```

```
|      C56UI.dll
|      C56VS.dll
|
|----Fonts
|      Hexadecimal-08Bit-HOR-2004.08X16.C56CS
|      Hexadecimal-08Bit-HOR-2004.12X24.C56CS
|      Korean-KS5601.20X20.C56WCS
|      Standard-2004.08X16.C56CS
|      Standard-2004.12X24.C56CS
|      Standard-CBL-2004.08X16.C56CS
|      Standard-CBL-2004.12X24.C56CS
|      Standard-GVRKG-2004.08X16.C56CS
|      Standard-GVRKG-2004.12X24.C56CS
|      Standard-Mall.24X24.C56WCS
|
|----Other
|      MFC71.dll
|      msvcrt71.dll
|      NET START SPOOLER.lnk
|      NET STOP SPOOLER.lnk
|
|----Samples
|      C56GdiDemo01.doc
|      C56GdiDemo02.doc
|      C56GdiDemo03.doc
|      C56GdiDemo04.doc
|      C56GdiDemo05.doc
|      C56GdiDemo06.doc
|      C56GdiDemo07.doc
|      C56GdiDemo08.doc
|      C56GdiDemo09.doc
|      C56GdiDemo10.doc
|      C56SdkDemo01.exe
|      C56SdkDemo01.zip
|      C56SdkDemo02.exe
|      C56SdkDemo02.zip
|      C56SdkDemo03.exe
|      C56SdkDemo03.zip
|      C56SdkDemo05.exe
|      C56SdkDemo05.zip
|      C56SdkDemo06.exe
|      C56SdkDemo06.zip
|      C56SdkDemo08.exe
|      C56SdkDemo08.zip
|      C56SdkDemo09.exe
|      C56SdkDemo09.zip
|      C56SdkDemo10.exe
|      C56SdkDemo10.zip
|
|----Sdk
|      C56SDK.h
|      C56SDK.lib
|      HengstlerC56+SDK.INF
|
|----Tools
|      C56ConfigTool.exe
|      C56CutterDemoTool.exe
|      C56Exhibition2006-EmuSampleNr01.prn
|      C56Exhibition2006-EmuSampleNr02.prn
|      C56Exhibition2006-EmuSampleNr03.prn
|      C56Exhibition2006-PaperCut.prn
|      C56Exhibition2006-PrintDensity.prn
|      C56Exhibition2006-PrintSpeed.prn
|      C56Exhibition2006-TicketNr01.prn
|      C56Exhibition2006-TicketNr02.prn
|      C56Exhibition2006-TicketNr03.prn
|      C56ExhibitionTool.exe
|      C56ExhibitionTool2006.exe
|      C56PrintTerminal.exe
|      C56SpeedTestTool.exe
|      C56TB2.dll
|      C56TicketNr01.prn
|      C56TicketNr02.prn
|      C56TicketNr03.prn
|      C56UnInstaller.exe
|      C56UploadTool.exe
|      MFC71.dll
```

msvcr71.dll

| List of files | | | | | |
|---------------|-------|-----------|--|----------|--|
| Date | Time | Size | File | Version | Description |
| N/A | N/A | N/A | C56-S684002-WindowsXpDriver-R1-V1_08-2007JAN31.zip | R1-V1.08 | Complete driver package as zip file |
| N/A | N/A | N/A | D-684-004-C56-WindowsXpDriver_ReleaseNote.pdf | R1-V1.08 | Release note of the driver package |
| 31.01.2007 | 23:29 | 11.224 | HengstlerC56.INF | R1-V1.08 | Driver component => information file required for installation of the driver |
| 31.01.2007 | 11:18 | 11.963 | C56.gpd | R1-V1.08 | Driver component => general printer definition file |
| 31.01.2007 | 10:45 | 22.528 | C56PM.dll | R1-V1.08 | Driver component => print job monitor |
| 31.01.2007 | 11:43 | 5.120 | C56RC.dll | R1-V1.08 | Driver component => version information |
| 31.01.2007 | 11:08 | 49.664 | C56SDK.dll | R1-V1.08 | Driver component => application programming interface |
| 31.01.2007 | 11:08 | 46.080 | C56TB.dll | R1-V1.08 | Driver component => tool box |
| 31.01.2007 | 11:09 | 31.744 | C56UD.dll | R1-V1.08 | Driver component => uni-driver |
| 31.01.2007 | 11:18 | 68 | C56UD.ini | R1-V1.08 | Driver component => uni-driver |
| 31.01.2007 | 23:14 | 678.400 | C56UI.dll | R1-V1.08 | Driver component => user interface / printer properties |
| 31.01.2007 | 22:40 | 53.248 | C56VS.dll | R1-V1.08 | Driver component => vendor setup |
| 05.04.2006 | 12:32 | 40.246 | Hexadecimal-08Bit-HOR-2004.08X16.C56CS | N/A | Character set: hexadecimal codes, 08x16 |
| 05.04.2006 | 12:30 | 84.278 | Hexadecimal-08Bit-HOR-2004.12X24.C56CS | N/A | Character set: hexadecimal codes, 12x24 |
| 09.01.2006 | 16:50 | 3.811.318 | Korean-KS5601.20X20.C56WCS | N/A | Character set: Korean KS5601 wide font, 20x20 |
| 07.09.2004 | 13:27 | 117.558 | Standard-2004.08X16.C56CS | N/A | Character set: standard primary font, 08x16 |
| 07.09.2004 | 13:24 | 249.654 | Standard-2004.12X24.C56CS | N/A | Character set: standard primary font, 12x24 |
| 18.11.2004 | 18:14 | 117.558 | Standard-CBL-2004.08X16.C56CS | N/A | Character set: modified standard font, 08x16 |
| 18.11.2004 | 18:14 | 249.654 | Standard-CBL-2004.12X24.C56CS | N/A | Character set: modified standard font, 12x24 |
| 22.08.2005 | 20:28 | 117.558 | Standard-GVRKG-2004.08X16.C56CS | N/A | Character set: standard secondary font, 08x16 |
| 22.08.2005 | 20:28 | 249.654 | Standard-GVRKG-2004.12X24.C56CS | N/A | Character set: standard secondary font, 12x24 |
| 10.11.2005 | 14:27 | 4.551.078 | Standard-Mall.24X24.C56WCS | N/A | Character set: sample wide font, 24x24 |
| 19.03.2003 | 06:20 | 1.060.864 | MFC71.dll | N/A | Windows XP library, required for specific tools/applications |
| 21.02.2003 | 13:42 | 348.160 | msvcr71.dll | N/A | Windows XP library, required for specific tools/applications |
| 13.10.2005 | 16:07 | 1.456 | NET_START_SPOOLER.lnk | N/A | Command for starting the spooler |
| 13.10.2005 | 16:11 | 1.658 | NET_STOP_SPOOLER.lnk | N/A | Command for stopping the spooler |

| | | | | | |
|------------|-------|-----------|------------------|----------|--|
| 08.02.2005 | 16:25 | 252.416 | C56GdiDemo01.doc | N/A | Sample document for GDI printing |
| 26.11.2004 | 12:59 | 135.168 | C56GdiDemo02.doc | N/A | Sample document for GDI printing |
| 26.11.2004 | 13:22 | 23.552 | C56GdiDemo03.doc | N/A | Sample document for GDI printing |
| 08.02.2005 | 16:25 | 456.192 | C56GdiDemo04.doc | N/A | Sample document for GDI printing |
| 08.02.2005 | 16:25 | 496.128 | C56GdiDemo05.doc | N/A | Sample document for GDI printing |
| 23.11.2005 | 15:23 | 20.992 | C56GdiDemo06.doc | N/A | Sample document for GDI printing |
| 23.11.2005 | 14:42 | 22.016 | C56GdiDemo07.doc | N/A | Sample document for GDI printing |
| 08.11.2006 | 15:57 | 1.414.656 | C56GdiDemo08.doc | N/A | Sample document for GDI printing |
| 08.11.2006 | 15:55 | 2.214.912 | C56GdiDemo09.doc | N/A | Sample document for GDI printing |
| 08.11.2006 | 15:57 | 5.858.816 | C56GdiDemo10.doc | N/A | Sample document for GDI printing |
| 31.01.2007 | 10:58 | 26.624 | C56SdkDemo01.exe | R1-V1.01 | Sample application that demonstrates the application programming interface (SDK) |
| 31.01.2007 | 10:58 | 35.520 | C56SdkDemo01.zip | R1-V1.01 | Visual C++ sources of the SDK demo |
| 31.01.2007 | 10:59 | 27.136 | C56SdkDemo02.exe | R1-V1.01 | Sample application that demonstrates the application programming interface (SDK) |
| 31.01.2007 | 10:59 | 35.996 | C56SdkDemo02.zip | R1-V1.01 | Visual C++ sources of the SDK demo |
| 31.01.2007 | 10:59 | 27.136 | C56SdkDemo03.exe | R1-V1.01 | Sample application that demonstrates the application programming interface (SDK) |
| 31.01.2007 | 10:59 | 35.673 | C56SdkDemo03.zip | R1-V1.01 | Visual C++ sources of the SDK demo |
| 31.01.2007 | 11:00 | 32.768 | C56SdkDemo05.exe | R1-V1.01 | Sample application that demonstrates the application programming interface (SDK) |
| 31.01.2007 | 11:00 | 38.861 | C56SdkDemo05.zip | R1-V1.01 | Visual C++ sources of the SDK demo |
| 31.01.2007 | 11:01 | 24.064 | C56SdkDemo06.exe | R1-V1.01 | Sample application that demonstrates the application programming interface (SDK) |
| 31.01.2007 | 11:01 | 33.586 | C56SdkDemo06.zip | R1-V1.01 | Visual C++ sources of the SDK demo |
| 31.01.2007 | 11:16 | 28.160 | C56SdkDemo08.exe | R1-V1.01 | Sample application that demonstrates the application programming interface (SDK) |
| 31.01.2007 | 11:16 | 36.321 | C56SdkDemo08.zip | R1-V1.01 | Visual C++ sources of the SDK demo |
| 31.01.2007 | 13:53 | 49.152 | C56SdkDemo09.exe | R1-V1.00 | Sample application that demonstrates the application programming interface (SDK) |
| 31.01.2007 | 13:53 | 90.943 | C56SdkDemo09.zip | R1-V1.00 | Visual C++ sources of the SDK demo |
| 31.01.2007 | 11:02 | 45.056 | C56SdkDemo10.exe | R1-V1.00 | Sample application that demonstrates the application programming interface (SDK) |
| 31.01.2007 | 11:02 | 39.255 | C56SdkDemo10.zip | R1-V1.00 | Visual C++ sources of the SDK demo |
| 31.01.2007 | 10:17 | 25.236 | C56SDK.h | R1-V1.08 | Header file describing the application programming interface (SDK) |

| | | | | | |
|------------|-------|-----------|-------------------------------------|----------|---|
| 31.01.2007 | 11:08 | 32.574 | C56SDK.lib | R1-V1.08 | SDK library, included in applications |
| 31.01.2007 | 20:52 | 11.197 | HengstlerC56+SDK.INF | R1-V1.08 | Driver component => information file required for installation of the driver (includes the SDK) |
| 31.01.2007 | 10:38 | 37.376 | C56ConfigTool.exe | R1-V1.02 | Tool for configuring the C-56 |
| 31.01.2007 | 10:39 | 45.056 | C56CutterDemoTool.exe | R1-V1.00 | Tool for demonstrating the X56 prototype (C56+Cutter) |
| 07.11.2006 | 15:45 | 663 | C56Exhibition2006-EmuSampleNr01.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 07.11.2006 | 15:45 | 663 | C56Exhibition2006-EmuSampleNr02.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 08.11.2006 | 16:21 | 32.768 | C56Exhibition2006-EmuSampleNr03.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 07.11.2006 | 15:45 | 663 | C56Exhibition2006-PaperCut.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 07.11.2006 | 15:45 | 663 | C56Exhibition2006-PrintDensity.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 07.11.2006 | 15:45 | 663 | C56Exhibition2006-PrintSpeed.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 08.11.2006 | 15:59 | 45.792 | C56Exhibition2006-TicketNr01.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 08.11.2006 | 16:00 | 47.006 | C56Exhibition2006-TicketNr02.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 08.11.2006 | 16:01 | 50.905 | C56Exhibition2006-TicketNr03.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 31.01.2007 | 10:40 | 151.552 | C56ExhibitionTool.exe | R1-V1.02 | Tool used for printer exhibition and demonstration |
| 31.01.2007 | 10:40 | 294.912 | C56ExhibitionTool2006.exe | R1-V1.00 | Tool used for printer exhibition and demonstration |
| 31.01.2007 | 10:47 | 61.440 | C56PrintTerminal.exe | R1-V1.00 | Tool that allows evaluation of emulation commands |
| 31.01.2007 | 11:07 | 45.056 | C56SpeedTestTool.exe | R1-V1.00 | Tool used for printer speed tests |
| 31.01.2007 | 11:09 | 20.480 | C56TB2.dll | R1-V1.08 | Driver component => tool box part two, used by certain applications/tools |
| 09.02.2005 | 10:59 | 60.003 | C56TicketNr01.prn | N/A | Sample print file of C56ExhibitionTool |
| 08.02.2005 | 18:43 | 201.603 | C56TicketNr02.prn | N/A | Sample print file of C56ExhibitionTool |
| 09.02.2005 | 10:55 | 57.602 | C56TicketNr03.prn | N/A | Sample print file of C56ExhibitionTool |
| 31.01.2007 | 23:48 | 208.896 | C56UnInstaller.exe | R1-V1.08 | Tool used for un-installation of C-56 drivers and files |
| 31.01.2007 | 11:13 | 69.632 | C56UploadTool.exe | R1-V1.00 | Tool used for upload of firmware, fonts, etc. |
| 19.03.2003 | 06:20 | 1.060.864 | MFC71.dll | N/A | Windows XP library, used in various tools and/or applications |
| 21.02.2003 | 13:42 | 348.160 | msvcr71.dll | N/A | Windows XP library, used in various tools and/or applications |

Installation

To prevent any C-56 file version mismatch, it is required that the C56Uninstaller tool is used before installation of a different C-56 printer driver version.

Installation of the C-56 printer driver for usage with C56-RS232-type printers or C56-USB-type printers with firmware V1.3X, is started by selecting [START MENU]->[PRINTERS&FAXES]->[ADD NEW PRINTER].

Installation of the C-56 printer driver for usage with C56-USB-type printers with firmware V3.00 or up, is started by connecting the printer through USB.

The C-56 printer driver information files are "HengstlerC56.INF" and "HengstlerC56+SDK.INF".

The C-56 printer driver manual contains more detailed information on C-56 printer driver installation.

Un-Installation

The C56Uninstaller tool is to be used for Uninstallation of installed C-56 printer drivers and driver files.

List of anomalies and bugs

Currently no anomalies or bugs are known.

List of restrictions

Currently no restrictions are known.

Documentation

The C-56 printer driver manual is available as Hengstler document D-684-021

The C-56 emulation command set manual is available as Hengstler document D-684-017

Notes

The hardware flow control must be enabled in both C-56 printer driver and C-56 printer when uploading firmware onto a serial board. The hardware flow control can be enabled in the printer properties dialog.

3 C-56 DRIVER S684002-R2-V1.09-2008MAY31

Description

The C-56 printer driver S684002-R2-V1.09- 2008MAY31 is developed for Windows-XP/2000 and is operational with all currently (2008MAY31) available C-56 type HENGSTLER printers (USB,RS232) and firmware (V1.30,1.31,V1.32,V2.00,V2.01,V3.00,V3.01).

List of modifications

=> R2-V1.09 - 2008 MAY 31 – RELEASED FINAL VERSION

| Communication between driver API and host improved. | | |
|--|--|---|
| Component | Version | Description |
| C56SDK.dll | R2-V1.09 | Application Programming Interface (SDK) |
| R2-001-HOR | The timeout time in the API is the timeout time for the I/O added 2500 ms | |
| C56TB.dll | R2-V1.09 | Tool Box (TB) |
| R2-002-HOR | Processing of comments (e.g. "//Comment") in escape command text corrected. Instead of all subsequent data being ignored, only text until end of line is ignored. | |
| C56TB.dll | R2-V1.09 | Tool Box (TB) |
| R2-003-HOR | C56 Configuration data extended with paper jam detection flags (available from C56 firmware version 3.01i) and with paper low detection setting (available from C56 firmware version 3.01j). | |
| C56ConfigTool.exe | R2-V1.02 | Configuration Tool |
| R2-004-HOR | C56 Configuration data extended with paper jam detection flags (available from C56 firmware version 3.01i) and with paper low detection setting (available from C56 firmware version 3.01j). | |
| C56CutterDemoTool.exe | R2-V1.01 | Cutter Demonstration Tool |
| R2-005-HOR | Text "Paper low detected through blackmark" changed to "Paper low detected". | |
| C56ExhibitionTool2005.exe | R2-V1.02 | Exhibition Tool 2005 |
| R2-006-HOR | Tool C56ExhibitionTool changed to C56ExhibitionTool2005. | |
| C56ManufacturingTool.exe | R2-V1.03 | Manufacturing tool |
| R2-007-HOR | Model indicator field added (12/24 volt). | |
| C56Sdk.dll | R2-V1.09 | Application Programming Interface (SDK) |
| R2-008-HOR | Enumeration C56_STATUS_RESPONSE extended with C56SR_PRINTER_PAPERINCHUTE. | |
| C56Ui.dll | R2-V1.09 | User interface (printer properties) |
| R2-009-HOR | Status dialog extended with paper in chute flag. | |
| C56.gpd, C56UD.dll, C56PM.dll, C56RC.dll, C56SDK.dll, C56TB.dll, C56UD.dll, C56UI.dll, C56VS.dll, HengstlerC56.INF, HengstlerC56+SDK.INF | R2-V1.09 | Main driver components |
| R2-XXX-HOR | Release and version information updated. | |

Package overview

```
|   C56-S684002-WindowsXpDriver-R1-V1_08-2007JAN31.zip
|   HengstlerC56.INF
|
+---Driver
|   \---i386
|           C56.gpd
|           C56PM.dll
|           C56RC.dll
|           C56SDK.dll
```

```
|      C56TB.dll
|      C56UD.dll
|      C56UD.ini
|      C56UI.dll
|      C56VS.dll
|      STDNAMES.GPD
|
+---Fonts
|      Hexadecimal-08Bit-HOR-2004.08X16.C56CS
|      Hexadecimal-08Bit-HOR-2004.12X24.C56CS
|      Korean-KS5601.20X20.C56WCS
|      Standard-2004.08X16.C56CS
|      Standard-2004.12X24.C56CS
|      Standard-CBL-2004.08X16.C56CS
|      Standard-CBL-2004.12X24.C56CS
|      Standard-GVRKG-2004.08X16.C56CS
|      Standard-GVRKG-2004.12X24.C56CS
|      Standard-Mall.24X24.C56WCS
|
+---Documentation
|      20080520-HowToUseTheC56DriverInWindowsVista.txt
|      D-684-004-C56-WindowsXpDriver_ReleaseNote.pdf
|      D-684-021-C56-WindowsXpDriver_Manual.pdf
|
+---Other
|      MFC71.dll
|      msvcrt71.dll
|      NET_START_SPOOLER.lnk
|      NET_STOP_SPOOLER.lnk
|
+---Samples
|      C56GdiDemo01.doc
|      C56GdiDemo02.doc
|      C56GdiDemo03.doc
|      C56GdiDemo04.doc
|      C56GdiDemo05.doc
|      C56GdiDemo06.doc
|      C56GdiDemo07.doc
|      C56GdiDemo08.doc
|      C56GdiDemo09.doc
|      C56GdiDemo10.doc
|      C56SdkDemo01.exe
|      C56SdkDemo01.zip
|      C56SdkDemo02.exe
|      C56SdkDemo02.zip
|      C56SdkDemo03.exe
|      C56SdkDemo03.zip
|      C56SdkDemo05.exe
|      C56SdkDemo05.zip
|      C56SdkDemo06.exe
|      C56SdkDemo06.zip
|      C56SdkDemo08.exe
|      C56SdkDemo08.zip
|      C56SdkDemo09.exe
|      C56SdkDemo09.zip
|      C56SdkDemo10.exe
|      C56SdkDemo10.zip
|
+---Sdk
|      C56SDK.h
|      C56SDK.lib
|      HengstlerC56+SDK.INF
|
\---Tools
|      C56ConfigTool.exe
|      C56CutterDemoTool.exe
|      C56Exhibition2005-TicketNr01.prn
|      C56Exhibition2005-TicketNr02.prn
|      C56Exhibition2005-TicketNr03.prn
|      C56Exhibition2006-EmuSampleNr01.prn
|      C56Exhibition2006-EmuSampleNr02.prn
|      C56Exhibition2006-EmuSampleNr03.prn
|      C56Exhibition2006-PaperCut.prn
|      C56Exhibition2006-PrintDensity.prn
|      C56Exhibition2006-PrintSpeed.prn
|      C56Exhibition2006-TicketNr01.prn
|      C56Exhibition2006-TicketNr02.prn
```

C56Exhibition2006-TicketNr03.prn
 C56ExhibitionTool2005.exe
 C56ExhibitionTool2006.exe
 C56PrintTerminal.exe
 C56SpeedTestTool.exe
 C56TB2.dll
 C56UnInstaller.exe
 C56UploadTool.exe
 ExoExhibition2007-EmuSampleNr01.prn
 ExoExhibition2007-EmuSampleNr02.prn
 ExoExhibition2007-EmuSampleNr03.prn
 ExoExhibition2007-PaperCut.prn
 ExoExhibition2007-PrintDensity.prn
 ExoExhibition2007-PrinterNr01.prn
 ExoExhibition2007-PrinterNr02.prn
 ExoExhibition2007-PrinterNr03.prn
 ExoExhibition2007-PrinterNr04.prn
 ExoExhibition2007-PrintSpeed.prn
 ExoExhibition2007-TicketNr01.prn
 ExoExhibition2007-TicketNr02.prn
 ExoExhibition2007-TicketNr03.prn
 ExoExhibition2007B-DualColorSample.prn
 ExoExhibition2007B-EmuSampleNr01.prn
 ExoExhibition2007B-EmuSampleNr02.prn
 ExoExhibition2007B-EmuSampleNr03.prn
 ExoExhibition2007B-PaperCut.prn
 ExoExhibition2007B-PrintDensity.prn
 ExoExhibition2007B-PrinterNr01.prn
 ExoExhibition2007B-PrinterNr02.prn
 ExoExhibition2007B-PrinterNr03.prn
 ExoExhibition2007B-PrinterNr04.prn
 ExoExhibition2007B-PrintSpeed.prn
 ExoExhibition2007B-TicketNr01.prn
 ExoExhibition2007B-TicketNr02.prn
 ExoExhibition2007B-TicketNr03.prn
 MFC71.dll
 msvcr71.dll

List of files

| Date | Time | Size | File | Version | Description |
|------------|-------|---------|--|----------|--|
| N/A | N/A | N/A | C56-S684002-WindowsXpDriver-R2-V1_09-2008MAY31.zip | R2-V1.09 | Complete driver package as zip file |
| 14.05.2008 | 16:36 | 11.351 | HengstlerC56.INF | R2-V1.09 | Driver component => information file required for installation of the driver |
| N/A | N/A | N/A | D-684-004-C56-WindowsXpDriver_ReleaseNote.pdf | R2-V1.09 | Release note of the C56 driver package |
| N/A | N/A | N/A | D-684-021-C56-WindowsXpDriver_Manual.pdf | R2-V1.09 | Manual note of the C56 driver package |
| 21.05.2008 | 19:58 | 11.959 | C56.gpd | R2-V1.09 | Driver component => general printer definition file |
| 14.05.2008 | 11:35 | 22.528 | C56PM.dll | R2-V1.09 | Driver component => print job monitor |
| 14.05.2008 | 11:56 | 5.120 | C56RC.dll | R2-V1.09 | Driver component => version information |
| 14.05.2008 | 17:41 | 50.688 | C56SDK.dll | R2-V1.09 | Driver component => application programming interface |
| 14.05.2008 | 15:07 | 47.616 | C56TB.dll | R2-V1.09 | Driver component => tool box |
| 14.05.2008 | 15:23 | 31.744 | C56UD.dll | R2-V1.09 | Driver component => uni-driver |
| 14.05.2008 | 16:35 | 68 | C56UD.ini | N/A | Driver component => uni-driver |
| 14.05.2008 | 17:42 | 678.400 | C56UI.dll | R2-V1.09 | Driver component => user interface / printer properties |
| 14.05.2008 | 16:33 | 53.248 | C56VS.dll | R2-V1.09 | Driver component => vendor |

| | | | | | |
|------------|-------|-----------|--|----------|--|
| | | | | | setup |
| 21.07.2001 | 19:41 | 14.362 | STDNAMES.GPD | N/A | General printer definition file from windows XP which must be available when installing the driver in windows Vista. |
| 05.04.2006 | 12:32 | 40.246 | Hexadecimal-08Bit-HOR-2004.08X16.C56CS | N/A | Character set: hexadecimal codes, 08x16 |
| 05.04.2006 | 12:30 | 84.278 | Hexadecimal-08Bit-HOR-2004.12X24.C56CS | N/A | Character set: hexadecimal codes, 12x24 |
| 09.01.2006 | 16:50 | 3.811.318 | Korean-KS5601.20X20.C56WCS | N/A | Character set: Korean KS5601 wide font, 20x20 |
| 07.09.2004 | 13:27 | 117.558 | Standard-2004.08X16.C56CS | N/A | Character set: standard primary font, 08x16 |
| 07.09.2004 | 13:24 | 249.654 | Standard-2004.12X24.C56CS | N/A | Character set: standard primary font, 12x24 |
| 18.11.2004 | 18:14 | 117.558 | Standard-CBL-2004.08X16.C56CS | N/A | Character set: modified standard font, 08x16 |
| 18.11.2004 | 18:14 | 249.654 | Standard-CBL-2004.12X24.C56CS | N/A | Character set: modified standard font, 12x24 |
| 22.08.2005 | 20:28 | 117.558 | Standard-GVRKG-2004.08X16.C56CS | N/A | Character set: standard secondary font, 08x16 |
| 22.08.2005 | 20:28 | 249.654 | Standard-GVRKG-2004.12X24.C56CS | N/A | Character set: standard secondary font, 12x24 |
| 10.11.2005 | 14:27 | 4.551.078 | Standard-Mall.24X24.C56WCS | N/A | Character set: sample wide font, 24x24 |
| 19.03.2003 | 06:20 | 1.060.864 | MFC71.dll | N/A | Windows XP library, required for specific tools/applications |
| 21.02.2003 | 13:42 | 348.160 | msvcr71.dll | N/A | Windows XP library, required for specific tools/applications |
| 13.10.2005 | 16:07 | 1.456 | NET_START_SPOOLER.lnk | N/A | Command for starting the spooler |
| 13.10.2005 | 16:11 | 1.658 | NET_STOP_SPOOLER.lnk | N/A | Command for stopping the spooler |
| 08.02.2005 | 16:25 | 252.416 | C56GdiDemo01.doc | N/A | Sample document for GDI printing |
| 26.11.2004 | 12:59 | 135.168 | C56GdiDemo02.doc | N/A | Sample document for GDI printing |
| 26.11.2004 | 13:22 | 23.552 | C56GdiDemo03.doc | N/A | Sample document for GDI printing |
| 08.02.2005 | 16:25 | 456.192 | C56GdiDemo04.doc | N/A | Sample document for GDI printing |
| 08.02.2005 | 16:25 | 496.128 | C56GdiDemo05.doc | N/A | Sample document for GDI printing |
| 23.11.2005 | 15:23 | 20.992 | C56GdiDemo06.doc | N/A | Sample document for GDI printing |
| 23.11.2005 | 14:42 | 22.016 | C56GdiDemo07.doc | N/A | Sample document for GDI printing |
| 08.11.2006 | 15:57 | 1.414.656 | C56GdiDemo08.doc | N/A | Sample document for GDI printing |
| 08.11.2006 | 15:55 | 2.214.912 | C56GdiDemo09.doc | N/A | Sample document for GDI printing |
| 08.11.2006 | 15:57 | 5.858.816 | C56GdiDemo10.doc | N/A | Sample document for GDI printing |
| 14.05.2008 | 13:47 | 26.624 | C56SdkDemo01.exe | R2-V1.02 | Sample application that demonstrates the application programming interface (SDK) |
| 14.05.2008 | 13:47 | 35.838 | C56SdkDemo01.zip | R2-V1.02 | Visual C++ sources of the SDK demo |

| | | | | | |
|------------|-------|--------|-------------------------------------|----------|---|
| 14.05.2008 | 13:47 | 27.136 | C56SdkDemo02.exe | R2-V1.02 | Sample application that demonstrates the application programming interface (SDK) |
| 14.05.2008 | 13:47 | 36.349 | C56SdkDemo02.zip | R2-V1.02 | Visual C++ sources of the SDK demo |
| 14.05.2008 | 13:48 | 27.136 | C56SdkDemo03.exe | R2-V1.02 | Sample application that demonstrates the application programming interface (SDK) |
| 14.05.2008 | 13:48 | 36.059 | C56SdkDemo03.zip | R2-V1.02 | Visual C++ sources of the SDK demo |
| 14.05.2008 | 13:48 | 32.768 | C56SdkDemo05.exe | R2-V1.02 | Sample application that demonstrates the application programming interface (SDK) |
| 14.05.2008 | 13:48 | 39.259 | C56SdkDemo05.zip | R2-V1.02 | Visual C++ sources of the SDK demo |
| 14.05.2008 | 13:44 | 24.064 | C56SdkDemo06.exe | R2-V1.02 | Sample application that demonstrates the application programming interface (SDK) |
| 14.05.2008 | 13:44 | 33.685 | C56SdkDemo06.zip | R2-V1.02 | Visual C++ sources of the SDK demo |
| 14.05.2008 | 13:50 | 28.160 | C56SdkDemo08.exe | R2-V1.02 | Sample application that demonstrates the application programming interface (SDK) |
| 14.05.2008 | 13:50 | 36.467 | C56SdkDemo08.zip | R2-V1.02 | Visual C++ sources of the SDK demo |
| 14.05.2008 | 16:39 | 34.816 | C56SdkDemo09.exe | R2-V1.01 | Sample application that demonstrates the application programming interface (SDK) |
| 14.05.2008 | 16:39 | 93.717 | C56SdkDemo09.zip | R2-V1.01 | Visual C++ sources of the SDK demo |
| 14.05.2008 | 14:23 | 45.056 | C56SdkDemo10.exe | R2-V1.01 | Sample application that demonstrates the application programming interface (SDK) |
| 14.05.2008 | 14:23 | 39.338 | C56SdkDemo10.zip | R2-V1.01 | Visual C++ sources of the SDK demo |
| 14.05.2008 | 17:36 | 26.451 | C56SDK.h | R2-V1.09 | Header file describing the application programming interface (SDK) |
| 14.05.2008 | 17:41 | 32.574 | C56SDK.lib | R2-V1.09 | SDK library, included in applications |
| 21.05.2008 | 20:52 | 11.197 | HengstlerC56+SDK.INF | R2-V1.09 | Driver component => information file required for installation of the driver (includes the SDK) |
| 31.01.2007 | 10:38 | 37.376 | C56ConfigTool.exe | R2-V1.09 | Tool for configuring the C-56 |
| 31.01.2007 | 10:39 | 45.056 | C56CutterDemoTool.exe | R2-V1.09 | Tool for demonstrating the X56 prototype (C56+Cutter) |
| 07.11.2006 | 15:45 | 663 | C56Exhibition2006-EmuSampleNr01.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 07.11.2006 | 15:45 | 663 | C56Exhibition2006-EmuSampleNr02.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 08.11.2006 | 16:21 | 32.768 | C56Exhibition2006-EmuSampleNr03.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 07.11.2006 | 15:45 | 663 | C56Exhibition2006-PaperCut.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 07.11.2006 | 15:45 | 663 | C56Exhibition2006-PrintDensity.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 07.11.2006 | 15:45 | 663 | C56Exhibition2006-PrintSpeed.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 08.11.2006 | 15:59 | 45.792 | C56Exhibition2006-TicketNr01.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 08.11.2006 | 16:00 | 47.006 | C56Exhibition2006-TicketNr02.prn | N/A | Sample print file of C56ExhibitionTool2006 |

| | | | | | |
|------------|-------|-----------|----------------------------------|----------|---|
| 08.11.2006 | 16:01 | 50.905 | C56Exhibition2006-TicketNr03.prn | N/A | Sample print file of C56ExhibitionTool2006 |
| 31.01.2007 | 10:40 | 151.552 | C56ExhibitionTool.exe | R2-V1.09 | Tool used for printer exhibition and demonstration |
| 31.01.2007 | 10:40 | 294.912 | C56ExhibitionTool2006.exe | R2-V1.09 | Tool used for printer exhibition and demonstration |
| 31.01.2007 | 10:47 | 61.440 | C56PrintTerminal.exe | R2-V1.09 | Tool that allows evaluation of emulation commands |
| 31.01.2007 | 11:07 | 45.056 | C56SpeedTestTool.exe | R2-V1.09 | Tool used for printer speed tests |
| 31.01.2007 | 11:09 | 20.480 | C56TB2.dll | R2-V1.09 | Driver component => tool box part two, used by certain applications/tools |
| 09.02.2005 | 10:59 | 60.003 | C56TicketNr01.prn | N/A | Sample print file of C56ExhibitionTool |
| 08.02.2005 | 18:43 | 201.603 | C56TicketNr02.prn | N/A | Sample print file of C56ExhibitionTool |
| 09.02.2005 | 10:55 | 57.602 | C56TicketNr03.prn | N/A | Sample print file of C56ExhibitionTool |
| 31.01.2007 | 23:48 | 208.896 | C56UnInstaller.exe | R2-V1.09 | Tool used for un-installation of C-56 drivers and files |
| 31.01.2007 | 11:13 | 69.632 | C56UploadTool.exe | R2-V1.09 | Tool used for upload of firmware, fonts, etc. |
| 19.03.2003 | 06:20 | 1.060.864 | MFC71.dll | N/A | Windows XP library, used in various tools and/or applications |
| 21.02.2003 | 13:42 | 348.160 | msvcr71.dll | N/A | Windows XP library, used in various tools and/or applications |

Installation

To prevent any C-56 file version mismatch, it is required that the C56Uninstaller tool is used before installation of a different C-56 printer driver version.

Installation of the C-56 printer driver for usage with C56-RS232-type printers or C56-USB-type printers with firmware V1.3X, is started by selecting [START MENU]->[PRINTERS&FAXES]->[ADD NEW PRINTER].

Installation of the C-56 printer driver for usage with C56-USB-type printers with firmware V3.00 or up, is started by connecting the printer through USB.

The C-56 printer driver information files are "HengstlerC56.INF" and "HengstlerC56+SDK.INF".

The C-56 printer driver manual contains more detailed information on C-56 printer driver installation.

Un-Installation

The C56Uninstaller tool is to be used for Uninstallation of installed C-56 printer drivers and driver files.

List of anomalies and bugs

Currently no anomalies or bugs are known.

| Id | Module | Version | Descriptopm |
|--------------|---------------|----------|---|
| B-R2-001-HOR | C56ConfigTool | R2-V1.03 | Paper low detection is always set to "BLACK MARK" when "NEVER" is selected. |

List of restrictions

Currently no restrictions are known.

Documentation

The C-56 printer driver manual is available as Hengstler document D-684-021

The C-56 emulation command set manual is available as Hengstler document D-684-017

Notes

The hardware flow control must be enabled in both C-56 printer driver and C-56 printer when uploading firmware onto a serial board. The hardware flow control can be enabled in the printer properties dialog.

4 C-56 DRIVER S684002-R3-V2.00-2012NOV13

Description

The C-56 printer driver S684002-R3-V2.00-2012NOV13 is developed for Windows-XP and Windows-7 and is operational with all currently available C-56 type HENGSTLER printers (USB,RS232) and firmware (V1.30,1.31,V1.32,V2.00,V2.01,V3.00,V3.01,V3.02, V3.03).

Package overview

```
| C56-S684002-WindowsXpDriver-R3-V2_00-2012NOV13.zip
| HengstlerC56.INF
|
+---Driver
| | Hengstler-C56.inf
| | Hengstler-C56_x64.inf
| \---Data
| | C56.gpd
| | C56_x64.gpd
| | C56Pm.dll
| | C56Pm_x64.dll
| | C56.dll
| | C56_x64.dll
| | C56Sdk.dll
| | C56Sdk_x64.dll
| | C56Tb.dll
| | C56Tb_x64.dll
| | C56Ud.dll
| | C56Ud_x64.dll
| | C56Ud.ini
| | C56Ud_x64.ini
| | C56Ui.dll
| | C56Ui_x64.dll
| | C56Vs.dll
| | C56Vs_x64.dll
| | STDNAMES.GPD
|
+---Fonts
| | Hexadecimal-08Bit-HOR-2004.08X16.C56CS
| | Hexadecimal-08Bit-HOR-2004.12X24.C56CS
| | Korean-KS5601.20X20.C56WCS
| | Standard-2004.08X16.C56CS
| | Standard-2004.12X24.C56CS
| | Standard-CBL-2004.08X16.C56CS
| | Standard-CBL-2004.12X24.C56CS
| | Standard-GVRKG-2004.08X16.C56CS
| | Standard-GVRKG-2004.12X24.C56CS
| | Standard-Mall.24X24.C56WCS
|
+---Documentation
| | D-684-004-C56-WindowsXpDriver_ReleaseNote.pdf
|
+---Other
| | MFC71.dll
| | msvcr71.dll
| | NET_START_SPOOLER.lnk
| | NET_STOP_SPOOLER.lnk
|
+---Samples
| | C56GdiDemo01.doc
| | C56GdiDemo02.doc
| | C56GdiDemo03.doc
| | C56GdiDemo04.doc
| | C56GdiDemo05.doc
| | C56GdiDemo06.doc
| | C56GdiDemo07.doc
| | C56GdiDemo08.doc
| | C56GdiDemo09.doc
| | C56GdiDemo10.doc
```

| | |
|--|----------------------|
| | C56SdkDemo01.exe |
| | C56SdkDemo01.zip |
| | C56SdkDemo02.exe |
| | C56SdkDemo02.zip |
| | C56SdkDemo03.exe |
| | C56SdkDemo03.zip |
| | C56SdkDemo05.exe |
| | C56SdkDemo05.zip |
| | C56SdkDemo06.exe |
| | C56SdkDemo06.zip |
| | C56SdkDemo08.exe |
| | C56SdkDemo08.zip |
| | C56SdkDemo09.exe |
| | C56SdkDemo09.zip |
| | C56SdkDemo10.exe |
| | C56SdkDemo10.zip |
| | |
| | +---Sdk |
| | C56Sdk.h |
| | C56Sdklib |
| | C56Sdk_x64.lib |
| | |
| | \---Tools |
| | C56ConfigTool.exe |
| | C56ImageTool.exe |
| | C56PrintTerminal.exe |
| | C56Sdk.dll |
| | C56Tb2.dll |
| | C56Tb.dll |
| | C56UnInstaller.exe |
| | C56UploadTool.exe |
| | Mfc100.dll |
| | Msvcr100.dll |

| List of files | | |
|--|----------|--|
| File | Version | Description |
| C56-S684002-WindowsXpDriver-R3-V2_00-2012NOV03.zip | R3-V2.00 | Complete driver package as zip file |
| HengstlerC56.INF | R3-V2.00 | Driver component => information file required for installation of the driver |
| D-684-004-C56-WindowsXpDriver_ReleaseNote.pdf | N/A | Release note of the C56 driver package |
| C56.gpd, C56_x64.gpd | R3-V2.00 | Driver component => general printer definition file (32/64 bit) |
| C56Pm.dll, C56Pm_x64.dll | R3-V2.00 | Driver component => print job monitor (32/64 bit) |
| C56.dll, C56_x64.dll | R3-V2.00 | Driver component => version information (32/64 bit) |
| C56Sdk.dll, C56Sdk_x64.dll | R3-V2.00 | Driver component => application programming interface (32/64 bit) |
| C56Tb.dll, C56Tb_x64.dll | R3-V2.00 | Driver component => tool box (32/64 bit) |
| C56Ud.dll, C56Ud_x64.dll | R3-V2.00 | Driver component => uni-driver (32/64 bit) |
| C56Ud.ini, C56Ud_x64.ini | N/A | Driver component => uni-driver (32/64 bit) |
| C56Ui.dll, C56Ui_x64.dll | R3-V2.00 | Driver component => user interface / printer properties (32/64 bit) |
| C56Vs.dll, C56Vs_x64.dll | R3-V2.00 | Driver component => vendor setup (32/64 bit) |
| STDNAMES.GPD | N/A | General printer definition file from windows XP which must be available when installing the driver in windows Vista. |
| Hexadecimal-08Bit-HOR-2004.08X16.C56CS | N/A | Character set: hexadecimal codes, 08x16 |
| Hexadecimal-08Bit-HOR-2004.12X24.C56CS | N/A | Character set: hexadecimal codes, 12x24 |
| Korean-KS5601.20X20.C56WCS | N/A | Character set: Korean KS5601 wide font, 20x20 |

| | | |
|---------------------------------|----------|--|
| Standard-2004.08X16.C56CS | N/A | Character set: standard primary font, 08x16 |
| Standard-2004.12X24.C56CS | N/A | Character set: standard primary font, 12x24 |
| Standard-CBL-2004.08X16.C56CS | N/A | Character set: modified standard font, 08x16 |
| Standard-CBL-2004.12X24.C56CS | N/A | Character set: modified standard font, 12x24 |
| Standard-GVRKG-2004.08X16.C56CS | N/A | Character set: standard secondary font, 08x16 |
| Standard-GVRKG-2004.12X24.C56CS | N/A | Character set: standard secondary font, 12x24 |
| Standard-Mall.24X24.C56WCS | N/A | Character set: sample wide font, 24x24 |
| MFC71.dll | N/A | Windows XP library, required for specific tools/applications |
| msvcr71.dll | N/A | Windows XP library, required for specific tools/applications |
| NET_START_SPOOLER.lnk | N/A | Command for starting the spooler |
| NET_STOP_SPOOLER.lnk | N/A | Command for stopping the spooler |
| C56GdiDemoXX.doc | N/A | Sample document for GDI printing |
| C56SdkDemoXX.exe | N/A | Sample application that demonstrates the application programming interface (SDK) |
| C56SdkDemoXX.zip | N/A | Visual C++ sources of the SDK demo |
| C56Sdk.h | R3-V2.00 | Header file describing the application programming interface (SDK) |
| C56Sdk.lib, C56Sdk_x64.lib | R3-V2.00 | SDK library, included in applications C56Sdk.lib |
| C56ConfigTool.exe | R3-V2.00 | Tool for configuring the C-56 |
| C56ImageTool.exe | R3-V2.00 | Tool that uploads images into the C56 flash memory |
| C56PrintTerminal.exe | R3-V2.00 | Tool that allows evaluation of emulation commands |
| C56TB2.dll | R3-V2.00 | Driver component => tool box part two, used by certain applications/tools |
| C56UnInstaller.exe | R3-V2.00 | Tool used for un-installation of C-56 drivers and files |
| C56UploadTool.exe | R3-V2.00 | Tool used for upload of firmware, fonts, etc. |
| Mfc100.dll | N/A | Windows XP library, used in various tools and/or applications |
| Msvcr100.dll | N/A | Windows XP library, used in various tools and/or applications |

Installation on Windows XP

To prevent any C-56 file version mismatch, it is required that the C56Uninstaller tool is used before installation of a different C-56 printer driver version.

Installation of the C-56 printer driver for usage with C56-RS232-type printers or C56-USB-type printers with firmware V1.3X, is started by selecting [START MENU]->[PRINTERS&FAXES]->[ADD NEW PRINTER].

Installation of the C-56 printer driver for usage with C56-USB-type printers with firmware V3.00 or up, is started by connecting the printer through USB.

The C-56 printer driver information file is "HengstlerC56.INF".

The C-56 printer driver manual contains more detailed information on C-56 printer driver installation.

Installation on Windows 7

To prevent a C56 file version mismatch, it is required that previously installed C56 drivers are removed from the system (see "Un-Installing on Windows 7" below).

Installation of the C56 printer driver for usage with C56-RS232-type printers is started by selecting [START MENU]->[DEVICES&PRINTERS]->[ADD NEW PRINTER].

Installation of the C56 printer driver for usage with C56-USB-type printers is started by connecting the printer through USB, whereas the C56 printer will appear in the printers&faxes dialog. The actions required for successfully installing the driver may depend on the system setting. The C56 driver will automatically be installed when the C56 driver has already been loaded in the driver store. If not, then press the right mouse button on the C56 printer in the "printer&faxes dialog, select "properties", go to the "Hardware" register, select "properties", go to the "Driver" register and update (attach) the C56 driver from there.

Un-Installation on Windows XP

The C56Uninstaller tool is to be used for Uninstallation of installed C-56 printer drivers and driver files.

Un-Installation on Windows 7

Removal of installed C56 drivers within Windows 7 can be done with by deleting the C56 printer within the printers and faxes dialog. C56 OEM driver files can be removed from Windows 7 by using the Windows 7 Tool "pnputil.exe" ("pnputil -e" lists all OEM drivers, "pnputil -d oem0.inf" deletes the particular OEM driver. A setup tool for un-installing is currently in development and is expected to be available in the next to come driver version.

List of anomalies and bugs

Currently no anomalies or bugs are known.

List of incompatibilities to previous versions

Currently no incompatibilities are known.

List of restrictions

Currently no restrictions are known.

Notes

The hardware flow control must be enabled in both C-56 printer driver and C-56 printer when uploading firmware onto a serial board. The hardware flow control can be enabled in the printer properties dialog.

List of modifications

| Component | Version | Description |
|--------------------------|--|-------------------------|
| C56ConfigTool | R3-V1.04 | Configuration tool |
| R3-001-HOR | Paper low detection is no longer set to "BLACK MARK" when "NEVER" is selected (B-R2-001-HOR). | |
| C56SpeedTestTool | R3-V1.04 | Speed test tool |
| R3-002-HOR | Density setting added to speed test tool | |
| C56ConfigTool | R3-V1.04 | Configuration tool |
| R3-003-HOR | Flash write protection is disabled before configuration data is sent to the printer | |
| C56ManufConfigTool | R3-V1.04 | Manufacturing tool |
| R3-004-HOR | Flash write protection is disabled before manufactory data is sent to the printer | |
| Complete driver package | R3-V2.00a | Complete driver package |
| R3-005-HOR | Complete driver package migrated to windows 7 (64 and 32 bits) and windows XP (32 bits). | |
| C56Ui.dll | R3-V2.00b | User interface |
| R3-006-HOR | Contents display in Driver Information Tab corrected. | |
| C56Toolbox.dll | R3-V2.00b | Tool box |
| R3-007-HOR | Error in processing of hexadecimal escape commands sequences resolved. | |
| C56PrintMon.dll | R3-V2.00b | Print monitor |
| R3-008-HOR | Timeout of port lock failure increased from 0 to 15 seconds. This failure first occurred in R3-V2.00a. | |
| C56Ui.dll | R3-V2.00b | User interface |
| R3-009-HOR | Failure in displaying printer status within the printer properties dialog corrected. | |
| C56Vs.dll | R3-V2.00b | Vendor setup |
| R3-010-TKA | Extended with automatic paper path selection at the end of the printer driver setup phase. | |
| C56ConfigurationTool.dll | R3-V2.00c | Configuration tool |
| R3-011-HOR | Tool extended with Periodic Motor Lock feature, which periodically locks the motor when paper is detected by the chute sensor and when the motor excitation time has exceeded. | |
| C56Toolbox.dll | R3-V2.00c | Tool box |
| R3-012-HOR | Configuration data extended with Periodic Motor Lock setting. | |
| C56ConfigurationTool.dll | R3-V2.00c | Configuration tool |
| R3-013-HOR | Tool extended with a Print Options setting, which allows disabling the auto speed reduction and enabling continuous paper low. | |
| C56Toolbox.dll | R3-V2.00c | Tool box |
| R3-014-HOR | Configuration data extended with Print Options setting. | |
| C56Setup.exe | R3-V2.00c | Setup tool |
| R3-015-HOR | Setup tool for Windows XP / 7 added. | |
| Various files | R3-V2.00 | Complete driver package |
| R3-016-HOR | All driver files and tools signed with the genuine Hengstler GmbH certificate. | |

5 C-56 DRIVER S684002-R4-V2.01-2017APR27

Description

The C-56 printer driver S684002-R4-V2.01-2017APR27 is developed for Windows XP, Windows 7, Windows 8 and Windows 10 and is operational with all currently available C-56 type HENGSTLER printers (USB, RS232) and firmware versions (V1.30, V1.31, V1.32, V2.00, V2.01, V3.00, V3.01, V3.02, V3.03).

Package overview for Windows 7/8/10 (32 + 64 bit)

```
| S-684-002-C56-Windows7810Driver-R4-V2_01-FINAL-2017APR27.zip
+---Driver
| | C56-Setup.exe
| | C56-Setup.x32.exe
| | C56-Setup.x64.exe
| | difxapi.x32.dll
| | difxapi.x64.dll
| | Hengstler-C56.cat
| | Hengstler-C56.inf
| | Hengstler-C56.x64.cat
| | Hengstler-C56_x64.inf
| \---Data
| | C56.gpd
| | C56_x64.gpd
| | C56Pm.dll
| | C56Pm_x64.dll
| | C56.dll
| | C56_x64.dll
| | C56Sdk.dll
| | C56Sdk_x64.dll
| | C56Tb.dll
| | C56Tb_x64.dll
| | C56Ud.dll
| | C56Ud_x64.dll
| | C56Ud.ini
| | C56Ud_x64.ini
| | C56Ui.dll
| | C56Ui_x64.dll
| | C56Vs.dll
| | C56Vs_x64.dll
| | STDNAMES.GPD
+---Fonts
| | C56CodePages.zip
| | C56StandardFonts.zip
| | C56WideFonts.zip
+---Documentation
| | S-684-002-C56-WindowsXp7810Driver_ReleaseNote.pdf
+---Other
| | MFC71.dll
| | msucr71.dll
| | NET_START_SPOOLER.lnk
| | NET_STOP_SPOOLER.lnk
+---Samples
| | C56GdiDemo01.doc
| | C56GdiDemo02.doc
| | C56GdiDemo03.doc
| | C56GdiDemo04.doc
| | C56GdiDemo05.doc
| | C56GdiDemo06.doc
| | C56GdiDemo07.doc
| | C56GdiDemo08.doc
| | C56GdiDemo09.doc
| | C56GdiDemo10.doc
| | C56SdkDemo01.exe
```

```
| C56SdkDemo01.zip
| C56SdkDemo02.exe
| C56SdkDemo02.zip
| C56SdkDemo03.exe
| C56SdkDemo03.zip
| C56SdkDemo05.exe
| C56SdkDemo05.zip
| C56SdkDemo06.exe
| C56SdkDemo06.zip
| C56SdkDemo08.exe
| C56SdkDemo08.zip
| C56SdkDemo09.exe
| C56SdkDemo09.zip
| C56SdkDemo10.exe
| C56SdkDemo10.zip
|
+---Sdk
| C56Sdk.h
| C56Sdklib
| C56Sdk_x64.lib
|
\---Tools
| C56ConfigTool.exe
| C56CommandTool.exe
| C56ImageTool.exe
| C56PrintTerminal.exe
| C56Sdk.dll
| C56Tb2.dll
| C56Tb.dll
| C56UnInstaller.exe
| C56UploadTool.exe
| mfc140.dll
| mfc140u.dll
| msvcpl140.dll
| vcruntime140.dll
```

Package overview for Windows XP (32 Bit)

```
| S-684-002-C56-WindowsXpDriver-R4-V2_01-FINAL-2017APR27
|
+---Driver
| | Hengstler-C56.cat
| | Hengstler-C56.inf
| \---Data
| | C56.gpd
| | C56Pm.dll
| | C56.dll
| | C56Sdk.dll
| | C56Tb.dll
| | C56Ud.dll
| | C56Ud.ini
| | C56Ui.dll
| | C56Vs.dll
| | STDNAMES.GPD
|
+---Fonts
| C56CodePages.zip
| C56StandardFonts.zip
| C56WideFonts.zip
|
+---Documentation
| S-684-002-C56-WindowsXp7810Driver_ReleaseNote.pdf
|
+---Other
| MFC71.dll
| msvcr71.dll
| NET_START_SPOOLER.lnk
| NET_STOP_SPOOLER.lnk
|
+---Samples
| C56GdiDemo01.doc
| C56GdiDemo02.doc
| C56GdiDemo03.doc
| C56GdiDemo04.doc
```



```

|      C56GdiDemo05.doc
|      C56GdiDemo06.doc
|      C56GdiDemo07.doc
|      C56GdiDemo08.doc
|      C56GdiDemo09.doc
|      C56GdiDemo10.doc
|      C56SdkDemo01.exe
|      C56SdkDemo01.zip
|      C56SdkDemo02.exe
|      C56SdkDemo02.zip
|      C56SdkDemo03.exe
|      C56SdkDemo03.zip
|      C56SdkDemo05.exe
|      C56SdkDemo05.zip
|      C56SdkDemo06.exe
|      C56SdkDemo06.zip
|      C56SdkDemo08.exe
|      C56SdkDemo08.zip
|      C56SdkDemo09.exe
|      C56SdkDemo09.zip
|      C56SdkDemo10.exe
|      C56SdkDemo10.zip
|
+---Sdk
|      C56Sdk.h
|      C56Sdklib
|      C56Sdk_x64.lib
|
\---Tools
      C56ConfigTool.exe
      C56CommandTool.exe
      C56ImageTool.exe
      C56PrintTerminal.exe
      C56Sdk.dll
      C56Tb2.dll
      C56Tb.dll
      C56UnInstaller.exe
      C56UploadTool.exe
      Mfc100.dll
      Msvcr100.dll

```

| List of files | | |
|--|----------|--|
| File | Version | Description |
| S-684-002-C56-WindowsXpDriver-R4-V2_01-FINAL-2017APR27 | R4-V2.01 | Complete Windows XP driver package as zip file. |
| S-684-002-C56-Windows7810Driver-R4-V2_01-FINAL-2017APR27.zip | R4-V2.01 | Complete Windows 7/8/10 driver package as zip file. |
| C56-Setup.exe, C56-Setup.x32.exe, C56-Setup.x64.exe | R4-V2.01 | Windows 7/8/10 driver setup tools (console, 32/64 bit). |
| difxapi.x32.dll, difxapi.x64.dll | N/A | Windows 7/8/10 driver installation libraries (32/64 bit). |
| HengstlerC56.inf, HengstlerC56.cat, HengstlerC56_x64.inf, HengstlerC56_x64.cat | R4-V2.01 | Windows 7/8/10 driver components => information file required for installation of the driver |
| D-684-004-C56-WindowsXpDriver_ReleaseNote.pdf | N/A | Release note of the C56 driver package |
| C56.gpd, C56_x64.gpd | R4-V2.01 | Windows 7/8/10 driver components => general printer definition file (32/64 bit) |
| C56Pm.dll, C56Pm_x64.dll | R4-V2.01 | Windows 7/8/10 driver components => print job monitor (32/64 bit) |
| C56.dll, C56_x64.dll | R4-V2.01 | Windows 7/8/10 driver components => version information (32/64 bit) |
| C56Sdk.dll, C56Sdk_x64.dll | R4-V2.01 | Windows 7/8/10 driver components => application programming interface (32/64 bit) |
| C56Tb.dll, C56Tb_x64.dll | R4-V2.01 | Windows 7/8/10 driver component => tool box (32/64 bit) |

| | | |
|---|----------|--|
| C56Ud.dll, C56Ud_x64.dll | R4-V2.01 | Windows 7/8/10 driver component => uni-driver (32/64 bit) |
| C56Ud.ini, C56Ud_x64.ini | N/A | Windows 7/8/10 driver component => uni-driver (32/64 bit) |
| C56Ui.dll, C56Ui_x64.dll | R4-V2.01 | Windows 7/8/10 driver component => user interface / printer properties (32/64 bit) |
| C56Vs.dll, C56Vs_x64.dll | R4-V2.01 | Windows 7/8/10 driver component => vendor setup (32/64 bit) |
| STDNAMES.GPD | N/A | General printer definition file from windows XP which must be available when installing the driver in windows Vista. |
| C56CodePages.zip | N/A | Various code pages |
| C56StandardFonts.zip | N/A | Standard character sets |
| C56WideFonts.zip | N/A | Wide character sets |
| NET_START_SPOOLER.lnk | N/A | Command for starting the spooler |
| NET_STOP_SPOOLER.lnk | N/A | Command for stopping the spooler |
| C56GdiDemoXx.doc | N/A | Sample document for GDI printing |
| C56SdkDemoXx.exe | N/A | Sample application that demonstrates the application programming interface (SDK) |
| C56SdkDemoXx.zip | N/A | Visual C++ sources of the SDK demo |
| C56Sdk.h | R4-V2.01 | Header file describing the application programming interface (SDK) |
| C56Sdk.lib, C56Sdk_x64.lib | R4-V2.01 | SDK library, included in applications C56Sdk.lib |
| C56ConfigTool.exe | R4-V2.01 | Tool for configuring the C-56 |
| C56ImageTool.exe | R4-V2.01 | Tool that uploads images into the C56 flash memory |
| C56PrintTerminal.exe | R4-V2.01 | Tool that allows evaluation of emulation commands |
| C56TB2.dll | R4-V2.01 | Driver component => tool box part two, used by certain applications/tools |
| C56UnInstaller.exe | R4-V2.01 | Tool used for un-installation of C-56 drivers and files |
| C56UploadTool.exe | R4-V2.01 | Tool used for upload of firmware, fonts, etc. |
| Mfc100.dll, Msvcr100.dll | N/A | Windows XP libraries, used in various tools and/or applications |
| mfc140.dll, mfc140u.dll, msvcp140.dll, vcruntime140.dll | N/A | Windows 7/8/10 libraries, used in various tools and/or applications |

Installation on Windows XP

To prevent any C-56 file version mismatch in Windows XP, it is required that the C56Uninstaller tool is used before installation of a different C-56 printer driver version.

Installation of the C-56 printer driver for usage with C56-RS232-type printers or C56-USB-type printers with firmware V1.3X, is started by selecting [START MENU]->[PRINTERS&FAXES]->[ADD NEW PRINTER].

Installation of the C-56 printer driver for usage with C56-USB-type printers with firmware V3.00 or up, is started by connecting the printer through USB.

The C-56 printer driver information file is "HengstlerC56.INF".

The C-56 printer driver manual contains more detailed information on C-56 printer driver installation.

Installation on Windows 7 / 8 / 10

To prevent a C56 file version mismatch, it is required that previously installed C56 drivers are removed from the system (see "Un-Installing on Windows 7/8/10" below).

Installation of the C56 printer driver for usage with C56-RS232-type printers is started by selecting [START MENU]->[DEVICES&PRINTERS]->[ADD NEW PRINTER].

Installation of the C56 printer driver for usage with C56-USB-type printers is started by connecting the printer through USB, whereas the C56 printer will appear in the printers&faxes dialog. The actions required for successfully installing the driver may depend on the system setting. The C56 driver will automatically be installed when the C56 driver has already been loaded in the driver store. If not, then press the right mouse button on the C56 printer in the "printer&faxes dialog, select "properties", go to the "Hardware" register, select "properties", go to the "Driver" register and update (attach) the C56 driver from there.

Un-Installation on Windows XP

The C56Uninstaller tool is to be used for Uninstallation of installed C-56 printer drivers and driver files.

Un-Installation on Windows 7 / 8 / 10

Removal of installed C56 drivers within Windows 7/8 can be done with by deleting the C56 printer within the printers and faxes dialog. C56 OEM driver files can be removed from Windows 7/8 by using the Windows 7/8 Tool "pnputil.exe" ("pnputil -e" lists all OEM drivers, "pnputil -d oem0.inf" deletes the particular OEM driver. A setup tool for un-installing is currently in development and is expected to be available in the next to come driver version.

List of anomalies and bugs

Currently no anomalies or bugs are known.

List of incompatibilities to previous versions

Currently no incompatibilities are known.

List of restrictions

Currently no restrictions are known.

Notes

The hardware flow control must be enabled in both C-56 printer driver and C-56 printer when uploading firmware onto a serial board. The hardware flow control can be enabled in the printer properties dialog.

| List of modifications | | | |
|-----------------------|---|-----------|--|
| Mod-Id | Component | Version | Description |
| R4-001-HOR | Complete package | R4-V2.01a | Complete driver package adapted to windows 8. |
| R4-002-HOR | C56Sdk.dll | R4-V2.01b | Failure in C56Sdk_PmGetFwVersion(..) regarding buffer size determination resolved. |
| R4-003-HOR | Complete package | R4-V2.01 | Complete driver package adapted to windows 10. |
| R4-004-HOR | C56ApiWrapperNet.dll | R4-V2.01 | API Wrapper .NET added. |
| R4-005-HOR | Driver Package | R4-V2.01 | Various code pages added as font |
| R4-006-HOR | C56PrintTerminal.exe C56Tb2.dll C56Tb.dll | R4-V2.01 | Tools updated and data storage format changed to XML |
| R4-007-HOR | C56CommandTool.exe | R4-V2.01 | Driver package extended with a command tool. |
| R4-008-HOR | C56EnduranceTestTool.exe | R4-V2.01 | Tool package extended with an endurance test tool. |
| R4-009-HOR | C56ApiWrapperDotNetDemo.exe | R4-V2.01 | Test tool for API Wrapper .NET added. |
| R4-010-HOR | C56Sdk.dll C56Tb.dll | R4-V2.01 | Extended with image printing (default rendering) functionality. |
| R4-011-HOR | C56Sdk.dll C56Tb.dll | R4-V2.01 | Extended with RLE8 dot line compression functionality. |