HENGSTLER

Thermal Printer Family

eXtendo

Linux-Driver
S684018-R3-V1.04e-BETA-2018AUG14

Release Note

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Document History

Revision	Mod. Nr	Status	Description
1	4 140308 TKA1	Closed	Initial version: created for eXtendo Linux-Driver S684018 / R1-V1.00 -14 March 2008
2	4 300908 TKA1	Closed	Created for eXtendo Linux-Driver S684018 / R2-V1.01 -30 SEP 2008
3	4 080509 TKA1	Closed	Created for eXtendo Linux-Driver S684018 / R2-V1.01b - BETA - 08 MAY 2009
4	4 150709 LT1	Closed	Created for eXtendo Linux-Driver S684018 / R2-V1.01 - FINAL - 15 JUL 2009
5	4 201211 LT1	Closed	Created for eXtendo Linux-Driver S684018 / R3-V1.02a -BETA - 20 DEC 2011
6	4 070515 LT1	Closed	Created for eXtendo Linux-Driver S684018 / R3-V1.02d -BETA - 07 MAY 2015
7	4 130217 LT1	Closed	Created for eXtendo Linux-Driver S684018 / R3-V1.03a -BETA - 13 FEB 2017
8	4 230318 LT1	Closed	Created for eXtendo Linux-Driver S684018 / R3-V1.04a -BETA - 23 MAR 2018
9	4 250618 LT1	Closed	Created for eXtendo Linux-Driver S684018 / R3-V1.04b -BETA - 25 JUN 2018
9	4 310718 LT1	Closed	Created for eXtendo Linux-Driver S684018 / R3-V1.04d -BETA - 31 JUL 2018
10	4 140818 LT1	Closed	Created for eXtendo Linux-Driver S684018 / R3-V1.04e -BETA - 14 AUG 2018

Applicable Documentation and Software

Id	Part Nr	Description
[1]	D 684 112	Thermal Printer Family eXtendo - Emulation Command Set Reference Manual - Types: USB / RS232
[2]	S 684 018	Linux-Driver for Thermal Printer Family eXtendo
[3]	D 684 140	Linux-Driver Manual for Thermal Printer Family eXtendo

Comments

Revision	Comments
-	-

Contents

1 Introduction

This release note describes all known issues relative to the eXtendo X-56/X-80 Linux printer driver with HENGSTLER part number S684018, first being released as R1-V1.00 on 14 March 2008. Later versions of this release note will describe all changes to this driver from the original release.

Linux printer driver S684018-R1-V1.00-2008MAR14 is regarded to be backward compatible to earlier pre-released and/or beta versions them and replaces them all.

Linux printer driver S684018-R1-V1.00-2008MAR14 is tested to be operational only with eXtendo printers X-56 / X-80 with USB interfaces and all firmware versions installed.

Linux printer driver S684018-R2-V1.01b-2009MAY08 is regarded to be backward compatible to earlier pre-released and/or beta versions them and replaces them all.

Linux printer driver S684018-R3-V1.02a-BETA-2011DEC20 is regarded to be backward compatible to earlier pre-released and/or beta versions them and replaces them all.

Linux printer driver S684018-R3-V1.02d-BETA-2015MAY07 is regarded to be backward compatible to earlier pre-released and/or beta versions them and replaces them all.

Linux printer driver S684018-R3-V1.03a-BETA-2017FEB13 is regarded to be backward compatible to earlier pre-released and/or beta versions them and replaces them all. This version of driver support X86 / X64 / ARM operating system types

Linux printer driver S684018-R3-V1.04a-BETA-2018MAR23 is regarded to be backward compatible to earlier pre-released and/or beta versions them and replaces them all. This version of driver support X86 / X64 / ARM operating system types with USB 2.0 support.

The latest Linux printer driver is **S684018-R3-V1.04e-BETA-2018AUG14** and is not backward compatible to earlier pre-released versions with eXtendo printers.

2   EXTENDO LINUX-DRIVER S684018-R1-V1.00-2008MAR14

Description
The eXtendo printer driver S684018-R1-V1.00- 2008MAR14 is developed for Linux and is currently operational with all eXtendo X-56 / X-80 type printers (USB only) that have firmware S684014-R1-V1.00 installed.

List of modifications
=> R1-V1.00 – 2008 MAR 14 – RELEASED FINAL VERSION

| Initial version of the eXtendo printer driver for Linux. There is no modification history for earlier beta or pre-release versions of this printer driver. |

Component	Version	Description
–	–	–

Package overview

```
|   D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf
|   Extendo-LinuxDriver-S684018-R1-V1_00-FINAL-2008MAR14.zip
|   Extendo-LinuxDriver-S684018-R1-V1_00-FINAL-2008MAR14.sources
|
+---Driver
|   |   hengstlerx56.ppd
|   |   hengstlerx56.ppd.gz
|   |   hengstlerx80.ppd
|   |   hengstlerx80.ppd.gz
|   |   rastertoextendo
|   |   README.TXT
|   |   install
|   |   uninstall
|
```

List of files/components					
Date	**Time**	**Size**	**File**	**Version**	**Description**
N/A	N/A	N/A	Extendo-LinuxDriver-S684018-R1-V1_00-FINAL-2008MAR14.sources	R1-V1.00	Complete driver + sources package as zip file
N/A	N/A	N/A	Extendo-LinuxDriver-S684018-R1-V1_00-FINAL-2008MAR14.zip	R1-V1.00	Complete driver package as zip file
N/A	N/A	N/A	D-684-126-Extendo-LinuxpDriver-ReleaseNote.pdf	R1-V1.00	Release note of the driver package
08.03.2008	N/A	N/A	Hengstlerx56.ppd	R1-V1.00	Driver component => information file required for installation of the eXtendo X56 driver
08.03.2008	N/A	N/A	Hengstlerx56.ppd.gz	R1-V1.00	Driver component => information archive file required for installation of the eXtendo X-56 driver
08.03.2008	N/A	N/A	Hengstlerx80.ppd	R1-V1.00	Driver component => information file required for installation of the eXtendo X-80 driver
08.03.2008	N/A	N/A	Hengstlerx80.ppd.gz	R1-V1.00	Driver component => information archive file required for installation of the eXtendo X-80 driver

08.03.2008	N/A	N/A	rastertoextendo	R1-V1.00	Driver component => eXtendo Linux raster driver file
08.03.2008	N/A	N/A	README.TXT	R1-V1.00	Driver component => description of all files
08.03.2008	N/A	N/A	install	R1-V1.00	Driver component => install script for eXtendo driver installation
08.03.2008	N/A	N/A	uninstall	R1-V1.00	Driver component => uninstall script for eXtendo driver removal

Installation

Installation of the eXtendo printer driver for use with USB-type printers is started by using the "install" script in driver folder, which will copy necessary files to system folders, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the eXtendo printer driver for use with X-56 / X-80 USB -type printers is started by connecting the printer.

The eXtendo X-56 printer driver information file is "hengstlerx56.ppd" for the X-56 type printer.

The eXtendo X-80 printer driver information file is "hengstlerx80.ppd" for the X-80 type printer.

The eXtendo printer driver README.TXT contains more information on eXtendo printer driver installation.

Removal

The "uninstall" script is to be used for the removal of installed eXtendo printer driver files.

Uninstallation of installed eXtendo printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by use of "localhost:631" in your web browser.

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.

Documentation

At this time there is no eXtendo Linux printer driver manual available.

The eXtendo emulation command set manual is available as Hengstler document D-684-112 [1].

Notes

Firmware patch #00000001 must be enabled with the Exo-FwPatchTool when eXtendo firmware S684014-R1-V1.00-2007DEC21 has been installed on early prototype X-56 and X-80 printers which have controller board A or B. The Exo-FwPatchTool which comes in the Windows XP driver package [2].

3   EXTENDO LINUX-DRIVER S684018-R2-V1.01-2008SEP30

Description
The eXtendo printer driver S684018-R2-V1.01- 2008SEP30 is developed for Linux and is currently operational with all eXtendo X-56 / X-80 type printers (USB only) that have firmware S684014 installed.

List of modifications

=> R2-V1.01 – 2008 SEP 30 – RELEASED FINAL VERSION

2nd released version of the eXtendo printer driver for Linux.

Mod-Id	Component	Version	Description
M-R2-001-TKA	HengstlerExtendo.drv	R2-V1.01	Disable* option added to „Print Speed" settings
M-R2-002-TKA	HengstlerExtendo.drv	R2-V1.01	Disable* option added to „Print Density" settings
M-R2-003-TKA	HengstlerExtendo.drv	R2-V1.01	Cutter option extended to „No Cut", „Full Cut", „Partial Cut" and „Disable*"
M-R2-004-TKA	hengstlertoextendo.c	R2-V1.01	Disable* in „Print Density" settings was implemented
M-R2-005-TKA	hengstlertoextendo.c	R2-V1.01	Disable* in „Print Speed" settings was implemented
M-R2-006-TKA	hengstlertoextendo.c	R2-V1.01	Cutter settings were implemented
N/A	All files	R2-V1.01	Changed the version information of all files to R2 / 2008SEP30

* Disable option will not send any command data to printer, only raw data are send

Package overview

```
|    Extendo-LinuxDriver-S684018-R2-V1_01-FINAL-2008SEP30.zip
|    README.TXT
|    install
|    uninstall
|
+---Driver
|    |    hengstlerx56.ppd
|    |    hengstlerx56.ppd.gz
|    |    hengstlerx80.ppd
|    |    hengstlerx80.ppd.gz
|    |    rastertoextendo
|
+---Api
|    |    Exo_Tb.h
|    |    Exo_System.h
|    |    Exo_Api.h
|    |    libExoApi.so.1.1
|
+---Documents
|    |    D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf
|    |    D-684-140-Extendo-LinuxDriver-Manual.pdf
|
+---Tools
|    |    Exo_PrintTerminal
|
```

EXTENDO LINUX-DRIVER RELEASE NOTE   **HENGSTLER**

List of files/components

Date	Time	Size	File	Version	Description
N/A	N/A	N/A	Extendo-LinuxDriver-S684018-R2-V1_01-FINAL-2008SEP30.zip	R2-V1.01	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R2-V1.01	Short description of driver package
N/A	N/A	N/A	install	R2-V1.01	Installation script for Linux
N/A	N/A	N/A	uninstall	R2-V1.01	Un-installation script for Linux
N/A	N/A	N/A	D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf	R2-V1.01	Release note of the driver package
N/A	N/A	N/A	D-684-140-Extendo-LinuxDriver-Manual.pdf	R2-V1.01	Linux driver manual
N/A	N/A	N/A	Exo_Tb.h	R2-V1.01	Include file specifying eXtendo Tool Box with various functionality
N/A	N/A	N/A	Exo_System.h	R2-V1.01	Include file specifying the overall eXtendo definition
N/A	N/A	N/A	Exo_Api.h	R2-V1.01	Include file specifying eXtendo Application Programming Interface
N/A	N/A	N/A	libExoApi.so.1.1	R2-V1.01	Application Programming Interface/API (Linux library)
N/A	N/A	N/A	hengstlerx56.ppd	R2-V1.01	Driver component => information file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd	R2-V1.01	Driver component => information file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	hengstlerx56.ppd.gz	R2-V1.01	Driver component => information archive file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd.gz	R2-V1.01	Driver component => information archive file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	Exo_PrintTerminal	R2-V1.01	Driver component => Tool for evaluating emulation commands

Installation

Installation of the eXtendo printer driver for use with USB-type printers is started by using the "install" script in driver folder, which will copy necessary files to system folders, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the eXtendo printer driver for use with X-56 / X-80 USB -type printers is started by connecting the printer.

The eXtendo X-56 printer driver information file is "hengstlerx56.ppd" for the X-56 type printer.

The eXtendo X-80 printer driver information file is "hengstlerx80.ppd" for the X-80 type printer.

The eXtendo printer driver README.TXT contains more information on eXtendo printer driver installation.

Removal
The "uninstall" script is to be used for the removal of installed eXtendo printer driver files.
Uninstallation of installed eXtendo printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by use of "localhost:631" in your web browser.

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.

Documentation
The eXtendo Linux Driver manual is available as Hengstler document D-684-140.
The eXtendo emulation command set manual is available as Hengstler document D-684-112 [1].

Notes
Firmware patch #00000001 must be enabled with the Exo-FwPatchTool when eXtendo firmware S684014-R1-V1.00-2007DEC21 has been installed on early prototype X-56 and X-80 printers which have controller board A or B. The Exo-FwPatchTool which comes in the Windows XP driver package [2].

4 EXTENDO LINUX-DRIVER S684018-R2-V1.01b-BETA 2009MAY08

Description
The eXtendo printer driver S684018-R2-V1.01b-BETA 2009MAY08 is developed for Linux and is currently operational with all eXtendo X-56 / X-80 type printers (USB only) that have firmware S684014 installed.

List of modifications

=> R2-V1.01b – 2009 MAY 08 – RELEASED FINAL VERSION

3rd released version of the eXtendo printer driver for Linux.

Mod-Id	Component	Version	Description
M-R2-001-TKA	HengstlerExtendo.drv	R2-V1.01b	Disable* option was removed from Cutter Option settings
M-R2-002-TKA	hengstlertoextendo.c	R2-V1.01b	Disable* in Cutter option in EndOfPage was removed
M-R2-003-TKA	hengstlertoextendo.c	R2-V1.01b	SetRepeatDotLine function was corrected
M-R2-004-TKA	hengstlertoextendo.c	R2-V1.01b	PreparePage was corrected for page_height settings
N/A	All files	R2-V1.01b	Changed the version information of all files to R2-V1.01b / 2009MAY08

* Disable option will not send any command data to printer, only raw data are send

Package overview

```
|   Extendo-LinuxDriver-S684018-R2-V1_01b-BETA-2009MAY08.zip
|   README.TXT
|   install
|   uninstall
|
+---Driver
|   |   hengstlerx56.ppd
|   |   hengstlerx56.ppd.gz
|   |   hengstlerx80.ppd
|   |   hengstlerx80.ppd.gz
|   |   rastertoextendo
|
+---Api
|   |   libExoApi.so.1.0
|   |   libExoTb.so.1.0
|   |   Exo_Api.h
|
+---Documents
|   |   D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf
|   |   D-684-140-Extendo-LinuxDriver-Manual.pdf
|
+---Tools
|   |   Exo_PrintTerminal
|   |   libExoApi.so.1.0
|   |   libExoTb.so.1.0
|
```

	List of files/components				
Date	**Time**	**Size**	**File**	**Version**	**Description**
N/A	N/A	N/A	Extendo-LinuxDriver-S684018-R2-V1_01b-BETA-2009MAY08.zip	R2-V1.01b	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R2-V1.01b	Short description of driver package
N/A	N/A	N/A	install	R2-V1.01b	Installation script for Linux
N/A	N/A	N/A	uninstall	R2-V1.01b	Un-installation script for Linux
N/A	N/A	N/A	D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf	R2-V1.01b	Release note of the driver package
N/A	N/A	N/A	D-684-140-Extendo-LinuxDriver-Manual.pdf	R2-V1.01b	Linux driver manual
N/A	N/A	N/A	libExoTb.so.1.0	R2-V1.01b	Include file specifying eXtendo Tool Box with various functionality(Linux library)
N/A	N/A	N/A	libExoApi.so.1.0	R2-V1.01b	Application Programming Interface/API (Linux library)
N/A	N/A	N/A	Exo_Api.h	R2-V1.01b	Include file specifying eXtendo Application Programming Interface
N/A	N/A	N/A	hengstlerx56.ppd	R2-V1.01b	Driver component => information file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd	R2-V1.01b	Driver component => information file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	hengstlerx56.ppd.gz	R2-V1.01b	Driver component => information archive file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd.gz	R2-V1.01b	Driver component => information archive file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	Exo_PrintTerminal	R2-V1.01b	Driver component => Tool for evaluating emulation commands

	Installation
Installation of the eXtendo printer driver for use with USB-type printers is started by using the "install" script in driver folder, which will copy necessary files to system folders, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.	
Installation of the eXtendo printer driver for use with X-56 / X-80 USB -type printers is started by connecting the printer.	
The eXtendo X-56 printer driver information file is "hengstlerx56.ppd" for the X-56 type printer.	
The eXtendo X-80 printer driver information file is "hengstlerx80.ppd" for the X-80 type printer.	
The eXtendo printer driver README.TXT contains more information on eXtendo printer driver installation.	

Removal
The "uninstall" script is to be used for the removal of installed eXtendo printer driver files.
Uninstallation of installed eXtendo printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by use of "localhost:631" in your web browser.

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.

Documentation
The eXtendo Linux Driver manual is available as Hengstler document D-684-140.
The eXtendo emulation command set manual is available as Hengstler document D-684-112 [1].

Notes
Firmware patch #00000001 must be enabled with the Exo-FwPatchTool when eXtendo firmware S684014-R1-V1.00-2007DEC21 has been installed on early prototype X-56 and X-80 printers which have controller board A or B. The Exo-FwPatchTool which comes in the Windows XP driver package [2].

5 EXTENDO LINUX-DRIVER S684018-R2-V1.01-FINAL 2009JUL15

Description

The eXtendo printer driver S684018-R2-V1.01-FINAL 2009JUL15 is developed for Linux and is currently operational with all eXtendo X-56 / X-80 type printers (USB only) that have firmware S684014 installed.

List of modifications

=> R2-V1.01 – FINAL -2009 JUL 15 – RELEASED FINAL VERSION

3rd released version of the eXtendo printer driver for Linux.

Mod-Id	Component	Version	Description

Package overview

```
|    Extendo-LinuxDriver-S684018-R2-V1_01-FINAL-2009JUL15.zip
|    README.TXT
|    install
|    uninstall
|
+---Driver
|    |    hengstlerx56.ppd
|    |    hengstlerx56.ppd.gz
|    |    hengstlerx80.ppd
|    |    hengstlerx80.ppd.gz
|    |    rastertoextendo
|
+---Api
|    |    libExoApi.so.1.0
|    |    libExoTb.so.1.0
|    |    Exo_Api.h
|
+---Documents
|    |    D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf
|    |    D-684-140-Extendo-LinuxDriver-Manual.pdf
|
+---Tools
|    |    Exo_PrintTerminal
|    |    libExoApi.so.1.0
|    |    libExoTb.so.1.0
|
```

List of files/components					
Date	**Time**	**Size**	**File**	**Version**	**Description**
N/A	N/A	N/A	Extendo-LinuxDriver-S684018-R2-V1_01-FINAL-2009JUL15.zip	R2-V1.01	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R2-V1.01	Short description of driver package
N/A	N/A	N/A	install	R2-V1.01	Installation script for Linux
N/A	N/A	N/A	uninstall	R2-V1.01	Un-installation script for Linux
N/A	N/A	N/A	D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf	R2-V1.01	Release note of the driver package
N/A	N/A	N/A	D-684-140-Extendo-LinuxDriver-Manual.pdf	R2-V1.01	Linux driver manual
N/A	N/A	N/A	libExoTb.so.1.0	R2-V1.01	Include file specifying eXtendo Tool Box with various functionality(Linux library)
N/A	N/A	N/A	libExoApi.so.1.0	R2-V1.01	Application Programming Interface/API (Linux library)
N/A	N/A	N/A	Exo_Api.h	R2-V1.01	Include file specifying eXtendo Application Programming Interface
N/A	N/A	N/A	hengstlerx56.ppd	R2-V1.01	Driver component => information file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd	R2-V1.01	Driver component => information file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	hengstlerx56.ppd.gz	R2-V1.01	Driver component => information archive file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd.gz	R2-V1.01	Driver component => information archive file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	Exo_PrintTerminal	R2-V1.01	Driver component => Tool for evaluating emulation commands

Installation
Installation of the eXtendo printer driver for use with USB-type printers is started by using the "install" script in driver folder, which will copy necessary files to system folders, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.
Installation of the eXtendo printer driver for use with X-56 / X-80 USB -type printers is started by connecting the printer.
The eXtendo X-56 printer driver information file is "hengstlerx56.ppd" for the X-56 type printer.
The eXtendo X-80 printer driver information file is "hengstlerx80.ppd" for the X-80 type printer.
The eXtendo printer driver README.TXT contains more information on eXtendo printer driver installation.

Removal

The "uninstall" script is to be used for the removal of installed eXtendo printer driver files.

Uninstallation of installed eXtendo printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by use of "localhost:631" in your web browser.

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.

Documentation

The eXtendo Linux Driver manual is available as Hengstler document D-684-140.

The eXtendo emulation command set manual is available as Hengstler document D-684-112 [1].

Notes

Firmware patch #00000001 must be enabled with the Exo-FwPatchTool when eXtendo firmware S684014-R1-V1.00-2007DEC21 has been installed on early prototype X-56 and X-80 printers which have controller board A or B. The Exo-FwPatchTool which comes in the Windows XP driver package [2].

6 EXTENDO LINUX-DRIVER S684018-R3-V1.02a-BETA 2011DEC20

Description
The eXtendo printer driver S684018-R3-V1.02a-BETA 2011DEC20 is developed for Linux and is currently operational with all eXtendo X-56 / X-80 type printers (USB /RS232) that have firmware S684014 installed.

List of modifications

=> R3-V1.02a – BETA -2011 DEC 20 – RELEASED VERSION

4th released version of the eXtendo printer driver for Linux.

Mod-Id	Component	Version	Description

Package overview

```
|   Extendo-LinuxDriver-S684018-R3-V1_02a-BETA-2011DEC20.zip
|   README.TXT
|   install
|   uninstall
|
+---Driver
|   |   hengstlerx56.ppd
|   |   hengstlerx56.ppd.gz
|   |   hengstlerx80.ppd
|   |   hengstlerx80.ppd.gz
|   |   rastertoextendo
|
+---Api
|   |   libExoApi.so.1.0
|   |   libExoTb.so.1.0
|   |   Exo_Api.h
|
+---Documents
|   |   D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf
|   |   D-684-140-Extendo-LinuxDriver-Manual.pdf
|
+---Tools
|   |   Exo_PrintTerminal
|   |   libExoApi.so.1.0
|   |   libExoTb.so.1.0
|
```

List of files/components					
Date	**Time**	**Size**	**File**	**Version**	**Description**
N/A	N/A	N/A	Extendo-LinuxDriver-S684018-R3-V1_02a-BETA-2011DEC20.zip	R3-V1.02a	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R3-V1.02a	Short description of driver package
N/A	N/A	N/A	install	R3-V1.02a	Installation script for Linux
N/A	N/A	N/A	uninstall	R3-V1.02a	Un-installation script for Linux
N/A	N/A	N/A	D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf	R3-V1.02a	Release note of the driver package
N/A	N/A	N/A	D-684-140-Extendo-LinuxDriver-Manual.pdf	R3-V1.02a	Linux driver manual
N/A	N/A	N/A	libExoTb.so.1.0	R3-V1.02a	Include file specifying eXtendo Tool Box with various functionality(Linux library)
N/A	N/A	N/A	libExoApi.so.1.0	R3-V1.02a	Application Programming Interface/API (Linux library)
N/A	N/A	N/A	Exo_Api.h	R3-V1.02a	Include file specifying eXtendo Application Programming Interface
N/A	N/A	N/A	hengstlerx56.ppd	R3-V1.02a	Driver component => information file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd	R3-V1.02a	Driver component => information file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	hengstlerx56.ppd.gz	R3-V1.02a	Driver component => information archive file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd.gz	R3-V1.02a	Driver component => information archive file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	Exo_PrintTerminal	R3-V1.02a	Driver component => Tool for evaluating emulation commands

List of modifications			
Id	**Components**	**Version**	**Description**
TKA-COR-01	Extendo Linux Driver	R3-V1.02a	Paper sizes redefinition to points
TKA-COR-02	Extendo Linux Driver	R3-V1.02a	Log file added for debugging
TKA-COR-03	Extendo Linux Driver	R3-V1.02a	Added new API communication (libusb)

Installation
Installation of the eXtendo printer driver for use with USB-type printers is started by using the "install" script in driver folder, which will copy necessary files to system folders, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.
Installation of the eXtendo printer driver for use with X-56 / X-80 USB -type printers is started by connecting the printer.
The eXtendo X-56 printer driver information file is "hengstlerx56.ppd" for the X-56 type printer.
The eXtendo X-80 printer driver information file is "hengstlerx80.ppd" for the X-80 type printer.
The eXtendo printer driver README.TXT contains more information on eXtendo printer driver installation.

Removal
The "uninstall" script is to be used for the removal of installed eXtendo printer driver files.
Uninstallation of installed eXtendo printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by use of "localhost:631" in your web browser.

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.

Documentation
The eXtendo Linux Driver manual is available as Hengstler document D-684-140.
The eXtendo emulation command set manual is available as Hengstler document D-684-112 [1].

Notes
Firmware patch #00000001 must be enabled with the Exo-FwPatchTool when eXtendo firmware S684014-R1-V1.00-2007DEC21 has been installed on early prototype X-56 and X-80 printers which have controller board A or B. The Exo-FwPatchTool which comes in the Windows XP driver package [2].

7 EXTENDO LINUX-DRIVER S684018-R3-V1.02d-BETA 2015MAY07

Description

The eXtendo printer driver S684018-R3-V1.02d-BETA 2015MAY07 is developed for Linux **x86** and **arm** processor type and is currently operational with all eXtendo X-56 / X-80 type printers (USB /RS232) that have firmware S684014 installed.

List of modifications

=> R3-V1.02d– BETA - 2015MAY07 – RELEASED VERSION

6th released version of the eXtendo printer driver for Linux **x86** and **arm** system types.

Mod-Id	Component	Version	Description

Package overview

```
|   Extendo-LinuxDriver-S684018-R3-V1_02d-BETA-2015MAY07.zip
|   README.TXT
|   install_x86
|   install_arm
|   uninstall_x86
|   uninstall_arm
|
+---Driver
|--------- +arm
|         |   hengstlerx56.ppd
|         |   hengstlerx56.ppd.gz
|         |   hengstlerx80.ppd
|         |   hengstlerx80.ppd.gz
|         |   rastertoextendo
|--------- +x86
|         |   hengstlerx56.ppd
|         |   hengstlerx56.ppd.gz
|         |   hengstlerx80.ppd
|         |   hengstlerx80.ppd.gz
|         |   rastertoextendo
|
+---Api
|--------- +arm
|         |   libExoApi.so.1.0
|         |   libExoTb.so.1.0
|         |   Exo_Api.h
|--------- +X86
|         |   libExoApi.so.1.0
|         |   libExoTb.so.1.0
|         |   Exo_Api.h
|
+---Documents
|   |   D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf
|   |   D-684-140-Extendo-LinuxDriver-Manual.pdf
|
+---Tools
|--------- +arm
|         |   Exo_Api_Test
|         |   libExoApi.so.1.0
|         |   libExoTb.so.1.0
|--------- +x86
|         |   Exo_Api_Test
|         |   libExoApi.so.1.0
|         |   libExoTb.so.1.0
```

List of files/components

Date	Time	Size	File	Version	Description
N/A	N/A	N/A	Extendo-LinuxDriver-S684018-R3-V1_02d-BETA-2015MAY07.zip	R3-V1.02d	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R3-V1.02d	Short description of driver package
N/A	N/A	N/A	install_x86	R3-V1.02d	Installation script for Linux x86
N/A	N/A	N/A	install_arm	R3-V1.02d	Installation script for Linux arm
N/A	N/A	N/A	uninstall_x86	R3-V1.02d	Un-installation script for Linux x86
N/A	N/A	N/A	uninstall_arm	R3-V1.02d	Un-installation script for Linux arm
N/A	N/A	N/A	D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf	R3-V1.02d	Release note of the driver package
N/A	N/A	N/A	D-684-140-Extendo-LinuxDriver-Manual.pdf	R3-V1.02d	Linux driver manual
N/A	N/A	N/A	libExoTb.so.1.0	R3-V1.02d	Include file specifying eXtendo Tool Box with various functionality(Linux library x86/arm)
N/A	N/A	N/A	libExoApi.so.1.0	R3-V1.02d	Application Programming Interface/API (Linux library x86/arm)
N/A	N/A	N/A	Exo_Api.h	R3-V1.02d	Include file specifying eXtendo Application Programming Interface
N/A	N/A	N/A	hengstlerx56.ppd	R3-V1.02d	Driver component => information file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd	R3-V1.02d	Driver component => information file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	hengstlerx56.ppd.gz	R3-V1.02d	Driver component => information archive file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd.gz	R3-V1.02d	Driver component => information archive file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	Exo_Api_Test	R3-V1.02d	Driver component => Small tool to test connection to printer via Extendo API

List of modifications

Id	Components	Version	Description
TKA-MOD-01	Extendo Linux Driver	R3-V1.02d	Redesigned directory structure
TKA-MOD-02	Extendo Linux Driver	R3-V1.02d	Linux driver extended with ARM processor types
TKA-MOD-03	Extendo Linux Driver / Tools	R3-V1.02d	Exo_PrintTerminal tool was removed from this package
TKA-MOD-04	Extendo Linux Driver / Tools	R3-V1.02d	New tool Exo_Api_Test was developed, to test Extendo API functionality

EXTENDO LINUX-DRIVER RELEASE NOTE   HENGSTLER

Installation
Installation of the eXtendo printer driver for use with USB-type printers is started by using the "**install_x86**" script for x86 systems and "**install_arm**" script for arm systems in driver folder, which will copy necessary files to system folders for particular system type, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.
Installation of the eXtendo printer driver for use with X-56 / X-80 USB -type printers is started by connecting the printer.
The eXtendo X-56 printer driver information file is "hengstlerx56.ppd" for the X-56 type printer.
The eXtendo X-80 printer driver information file is "hengstlerx80.ppd" for the X-80 type printer.
The eXtendo printer driver README.TXT contains more information on eXtendo printer driver installation.

Removal
The "**uninstall_x86**" script is to be used for the removal of installed eXtendo printer driver files from **x86** sytems.
The "**uninstall_arm**" script is to be used for the removal of installed eXtendo printer driver files from **arm** sytems.
Uninstallation of installed eXtendo printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by use of "localhost:631" in your web browser.

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.

Documentation
The eXtendo Linux Driver manual is available as Hengstler document D-684-140.
The eXtendo emulation command set manual is available as Hengstler document D-684-112 [1].

Notes
Firmware patch #00000001 must be enabled with the Exo-FwPatchTool when eXtendo firmware S684014-R1-V1.00-2007DEC21 has been installed on early prototype X-56 and X-80 printers which have controller board A or B. The Exo-FwPatchTool which comes in the Windows XP driver package [2].

8 EXTENDO LINUX-DRIVER S684018-R3-V1.03a-BETA 2017FEB13

Description

The eXtendo printer driver S684018-R3-V1.03a-BETA 2017FEB13 is developed for Linux **x86** / **x64** and **arm** processor type and is currently operational with all eXtendo X-56 / X-80 type printers (USB /RS232) that have firmware S684014 installed.

List of modifications

=> R3-V1.03a– BETA – 2017FEB13 – RELEASED VERSION

6th released version of the eXtendo printer driver for Linux **x86 / x64** and **arm** system types.

Mod-Id	Component	Version	Description

Package overview

```
|   Extendo-LinuxDriver-S684018-R3-V1_03a-BETA-2017FEB13.zip
|   README.TXT
|   install_x86
|   install_x64
|   install_arm
|   uninstall_x86
|   uninstall_arm
|
+---Driver
|--------- +arm
|          |   hengstlerx56.ppd
|          |   hengstlerx56.ppd.gz
|          |   hengstlerx80.ppd
|          |   hengstlerx80.ppd.gz
|          |   rastertoextendo
|--------- +x86
|          |   hengstlerx56.ppd
|          |   hengstlerx56.ppd.gz
|          |   hengstlerx80.ppd
|          |   hengstlerx80.ppd.gz
|          |   rastertoextendo
|--------- +x64
|          |   hengstlerx56.ppd
|          |   hengstlerx56.ppd.gz
|          |   hengstlerx80.ppd
|          |   hengstlerx80.ppd.gz
|          |   rastertoextendo
|
+---Api
|--------- +arm
|          |   libExoApi.so.1.0
|          |   libExoTb.so.1.0
|          |   Exo_Api.h
|--------- +x86
|          |   libExoApi.so.1.0
|          |   libExoTb.so.1.0
|          |   Exo_Api.h
|--------- +x64
|          |   libExoApi.so.1.0
|          |   libExoTb.so.1.0
|          |   Exo_Api.h
|
+---Documents
|   |   D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf
|   |   D-684-140-Extendo-LinuxDriver-Manual.pdf
|
```

```
+---Tools
|--------- +arm
|         |    Exo_Api_Test
|         |    libExoApi.so.1.0
|         |    libExoTb.so.1.0
|--------- +x86
|         |    Exo_Api_Test
|         |    libExoApi.so.1.0
|         |    libExoTb.so.1.0
|--------- +x64
|         |    Exo_Api_Test
|         |    libExoApi.so.1.0
|         |    libExoTb.so.1.0
```

List of files/components

Date	Time	Size	File	Version	Description
N/A	N/A	N/A	Extendo-LinuxDriver-S684018-R3-V1_03a-BETA-2017FEB13.zip	R3-V1.03a	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R3-V1.03a	Short description of driver package
N/A	N/A	N/A	install_x86	R3-V1.03a	Installation script for Linux x86
N/A	N/A	N/A	install_arm	R3-V1.03a	Installation script for Linux arm
N/A	N/A	N/A	install_x64	R3-V1.03a	Installation script for Linux x64
N/A	N/A	N/A	uninstall_x86	R3-V1.03a	Un-installation script for Linux x86
N/A	N/A	N/A	uninstall_arm	R3-V1.03a	Un-installation script for Linux arm
N/A	N/A	N/A	uninstall_x64	R3-V1.03a	Un-installation script for Linux x64
N/A	N/A	N/A	D-684-126-Extendo-LinuxDriver-ReleaseNote.pdf	R3-V1.03a	Release note of the driver package
N/A	N/A	N/A	D-684-140-Extendo-LinuxDriver-Manual.pdf	R3-V1.03a	Linux driver manual
N/A	N/A	N/A	libExoTb.so.1.0	R3-V1.03a	Include file specifying eXtendo Tool Box with various functionality(Linux library x86/arm)
N/A	N/A	N/A	libExoApi.so.1.0	R3-V1.03a	Application Programming Interface/API (Linux library x86/arm)
N/A	N/A	N/A	Exo_Api.h	R3-V1.03a	Include file specifying eXtendo Application Programming Interface
N/A	N/A	N/A	hengstlerx56.ppd	R3-V1.03a	Driver component => information file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd	R3-V1.03a	Driver component => information file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	hengstlerx56.ppd.gz	R3-V1.03a	Driver component => information archive file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd.gz	R3-V1.03a	Driver component => information archive file required for installation of the eXtendo X80 driver

N/A	N/A	N/A	Exo_Api_Test	R3-V1.03a	Driver component => Small tool to test connection to printer via Extendo API

List of modifications

Id	Components	Version	Description
TKA-MOD-01	Extendo Linux Driver	R3-V1.03a	Linux driver extended with x64 processor types

Installation

Installation of the eXtendo printer driver for use with USB-type printers is started by using the "**install_x86**" script for x86 systems, "**install_x64**" script for x64 systems and "**install_arm**" script for arm systems in driver folder, which will copy necessary files to system folders for particular system type, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the eXtendo printer driver for use with X-56 / X-80 USB -type printers is started by connecting the printer.

The eXtendo X-56 printer driver information file is "hengstlerx56.ppd" for the X-56 type printer.

The eXtendo X-80 printer driver information file is "hengstlerx80.ppd" for the X-80 type printer.

The eXtendo printer driver README.TXT contains more information on eXtendo printer driver installation.

Removal

The "**uninstall_x86**" script is to be used for the removal of installed eXtendo printer driver files from **x86** sytems.

The "**uninstall_x64**" script is to be used for the removal of installed eXtendo printer driver files from **x64** sytems.

The "**uninstall_arm**" script is to be used for the removal of installed eXtendo printer driver files from **arm** sytems.

Uninstallation of installed eXtendo printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by use of "localhost:631" in your web browser.

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.

Documentation

The eXtendo Linux Driver manual is available as Hengstler document D-684-140.

The eXtendo emulation command set manual is available as Hengstler document D-684-112 [1].

Notes
Firmware patch #00000001 must be enabled with the Exo-FwPatchTool when eXtendo firmware S684014-R1-V1.00-2007DEC21 has been installed on early prototype X-56 and X-80 printers which have controller board A or B. The Exo-FwPatchTool which comes in the Windows XP driver package [2].

9 EXTENDO LINUX-DRIVER S684018-R3-V1.04a-BETA 2018MAR23

Description

The eXtendo printer driver S684018-R3-V1.04a-BETA 2018MAR23 is developed for Linux **x86** / **x64** and **arm** processor type and USB 2.0 support and is currently operational with all eXtendo X-56 / X-80 type printers (USB /RS232) that have firmware S684014 installed.

List of modifications

=> R3-V1.04a– BETA – 2018MAR23 – RELEASED VERSION

6th released version of the eXtendo printer driver for Linux **x86 / x64** and **arm** system types with USB 2.0 support.

Mod-Id	Component	Version	Description

Package overview

```
|    S-684-018-Extendo-LinuxDriver-R3-V1_04a-BETA-2018MAR23.zip
|    README.TXT
|    install_x86
|    install_x64
|    install_arm
|    uninstall_x86
|    uninstall_arm
|
+---Driver
|--------- +arm
|          |    hengstlerx56.ppd
|          |    hengstlerx56.ppd.gz
|          |    hengstlerx80.ppd
|          |    hengstlerx80.ppd.gz
|          |    rastertoextendo
|--------- +x86
|          |    hengstlerx56.ppd
|          |    hengstlerx56.ppd.gz
|          |    hengstlerx80.ppd
|          |    hengstlerx80.ppd.gz
|          |    rastertoextendo
|--------- +x64
|          |    hengstlerx56.ppd
|          |    hengstlerx56.ppd.gz
|          |    hengstlerx80.ppd
|          |    hengstlerx80.ppd.gz
|          |    rastertoextendo
|
+---Api
|--------- +arm
|          |    libExoApi.so.1.0
|          |    libExoTb.so.1.0
|          |    Exo_Api.h
|--------- +x86
|          |    libExoApi.so.1.0
|          |    libExoTb.so.1.0
|          |    Exo_Api.h
|--------- +x64
|          |    libExoApi.so.1.0
|          |    libExoTb.so.1.0
|          |    Exo_Api.h
|
+---Documents
|    |    S-684-018-Extendo-LinuxDriver-ReleaseNote.pdf
|    |    D-684-140-Extendo-LinuxDriver-Manual.pdf
|
```

```
+---Tools
|--------- +arm
|         |    Exo_InquiryTool
|         |    Exo_Demo_FormFeed
|         |    Exo_Demo_InquiryStatus
|         |    Exo_Demo_PageLength
|         |    libExoApi.so.1.0
|         |    libExoTb.so.1.0
|         |    README.txt
|--------- +x86
|         |    Exo_InquiryTool
|         |    Exo_Demo_FormFeed
|         |    Exo_Demo_InquiryStatus
|         |    Exo_Demo_PageLength
|         |    libExoApi.so.1.0
|         |    libExoTb.so.1.0
|         |    README.txt
|--------- +x64
|         |    Exo_InquiryTool
|         |    Exo_Demo_FormFeed
|         |    Exo_Demo_InquiryStatus
|         |    Exo_Demo_PageLength
|         |    libExoApi.so.1.0
|         |    libExoTb.so.1.0
|         |    README.txt
|
+---Sources
|         |    Exo_Api.h
|         |    Exo_Demo_FormFeed.c
|         |    Exo_Demo_InquiryStatus.c
|         |    Exo_Demo_PageLength.c
|         |    README.txt
```

List of files/components

Date	Time	Size	File	Version	Description
N/A	N/A	N/A	S-684-018-Extendo-LinuxDriver-R3-V1_04a-BETA-2018MAR23.zip	R3-V1.04a	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R3-V1.04a	Short description of driver package
N/A	N/A	N/A	install_x86	R3-V1.04a	Installation script for Linux x86
N/A	N/A	N/A	install_arm	R3-V1.04a	Installation script for Linux arm
N/A	N/A	N/A	install_x64	R3-V1.04a	Installation script for Linux x64
N/A	N/A	N/A	uninstall_x86	R3-V1.04a	Un-installation script for Linux x86
N/A	N/A	N/A	uninstall_arm	R3-V1.04a	Un-installation script for Linux arm
N/A	N/A	N/A	uninstall_x64	R3-V1.04a	Un-installation script for Linux x64
N/A	N/A	N/A	S-684-018-Extendo-LinuxDriver-ReleaseNote.pdf	R3-V1.04a	Release note of the driver package
N/A	N/A	N/A	D-684-140-Extendo-LinuxDriver-Manual.pdf	R3-V1.04a	Linux driver manual
N/A	N/A	N/A	libExoTb.so.1.0	R3-V1.04a	Include file specifying eXtendo Tool Box with various functionality(Linux library x86/arm)
N/A	N/A	N/A	libExoApi.so.1.0	R3-V1.04a	Application Programming Interface/API (Linux library x86/arm)
N/A	N/A	N/A	Exo_Api.h	R3-V1.04a	Include file specifying eXtendo Application Programming Interface(API)

N/A	N/A	N/A	hengstlerx56.ppd	R3-V1.04a	Driver component => information file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd	R3-V1.04a	Driver component => information file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	hengstlerx56.ppd.gz	R3-V1.04a	Driver component => information archive file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd.gz	R3-V1.04a	Driver component => information archive file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	Exo_InquiryTool	R3-V1.04a	Driver component => Inquiry tool for checking eXtendo printer status
N/A	N/A	N/A	Exo_Demo_FormFeed	R3-V1.04a	Driver component => Demo application for sending form feed
N/A	N/A	N/A	Exo_Demo_InquiryStatus	R3-V1.04a	Driver component => Demo application for inquiring printer status package
N/A	N/A	N/A	Exo_Demo_PageLength	R3-V1.04a	Driver component => Demo application for setting page length
N/A	N/A	N/A	Sources\README.TXT	R3-V1.04a	Instruction for demo applications, how to compile sources and run them
N/A	N/A	N/A	Exo_Demo_FormFeed.c	R3-V1.04a	Source file of demo application for evaluating purposes
N/A	N/A	N/A	Exo_Demo_InquiryStatus.c	R3-V1.04a	Source file of demo application for evaluating purposes
N/A	N/A	N/A	Exo_Demo_PageLength.c	R3-V1.04a	Source file of demo application for evaluating purposes

List of modifications

Id	Components	Version	Description
TKA-MOD-01	Extendo Linux Driver	R3-V1.04a	Linux driver extended with USB 2.0 support for x86 / x64/ arm processor types
TKA-MOD-02	Extendo Linux Driver	R3-V1.04a	Exo_Api_Test application has been removed from package
TKA-MOD-03	Extendo Linux Driver	R3-V1.04a	New Exo_InquiryTool has been created, to check printer status
TKA-MOD-04	Extendo Linux Driver	R3-V1.04a	New Exo_Demo_FormFeed application also with sources has been added to driver package
TKA-MOD-05	Extendo Linux Driver	R3-V1.04a	New Exo_Demo_InquiryStatus application also with sources has been added to driver package
TKA-MOD-06	Extendo Linux Driver	R3-V1.04a	New Exo_Demo_PageLength application also with sources has been added to driver package
TKA-MOD-07	Extendo Linux Driver	R3-V1.04a	Document D-684-126 has been discontinued. Replaced by document S-684-018.

Installation

Installation of the eXtendo printer driver for use with USB-type printers is started by using the "**install_x86**" script for x86 systems, "**install_x64**" script for x64 systems and "**install_arm**" script for arm systems in driver folder, which will copy necessary files to system folders for particular system type, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the eXtendo printer driver for use with X-56 / X-80 USB -type printers is started by connecting the printer.

The eXtendo X-56 printer driver information file is "hengstlerx56.ppd" for the X-56 type printer.

The eXtendo X-80 printer driver information file is "hengstlerx80.ppd" for the X-80 type printer.

The eXtendo printer driver README.TXT contains more information on eXtendo printer driver installation.

Removal

The "**uninstall_x86**" script is to be used for the removal of installed eXtendo printer driver files from **x86** sytems.

The "**uninstall_x64**" script is to be used for the removal of installed eXtendo printer driver files from **x64** sytems.

The "**uninstall_arm**" script is to be used for the removal of installed eXtendo printer driver files from **arm** sytems.

Uninstallation of installed eXtendo printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by use of "localhost:631" in your web browser.

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.

Documentation

The eXtendo Linux Driver manual is available as Hengstler document D-684-140.

The eXtendo emulation command set manual is available as Hengstler document D-684-112 [1].

Notes

Firmware patch #00000001 must be enabled with the Exo-FwPatchTool when eXtendo firmware S684014-R1-V1.00-2007DEC21 has been installed on early prototype X-56 and X-80 printers which have controller board A or B. The Exo-FwPatchTool which comes in the Windows XP driver package [2].

10 EXTENDO LINUX-DRIVER S684018-R3-V1.04b-BETA 2018JUN25

Description

The eXtendo printer driver S684018-R3-V1.04b-BETA 2018JUN25 is developed for Linux **x86** / **x64** and **arm** processor type and USB 2.0 support and is currently operational with all eXtendo X-56 / X-80 type printers (USB /RS232) that have firmware S684014 installed.

List of modifications

=> R3-V1.04b– BETA – 2018JUN25 – RELEASED VERSION

6th released version of the eXtendo printer driver for Linux **x86** / **x64** and **arm** system types with USB 2.0 support.

Mod-Id	Component	Version	Description

Package overview

```
|    S-684-018-Extendo-LinuxDriver-R3-V1_04b-BETA-2018JUN25.zip
|    README.TXT
|    install_x86
|    install_x64
|    install_arm
|    uninstall_x86
|    uninstall_arm
|
+---Driver
|--------- +arm
|          |    hengstlerx56.ppd
|          |    hengstlerx56.ppd.gz
|          |    hengstlerx80.ppd
|          |    hengstlerx80.ppd.gz
|          |    rastertoextendo
|--------- +x86
|          |    hengstlerx56.ppd
|          |    hengstlerx56.ppd.gz
|          |    hengstlerx80.ppd
|          |    hengstlerx80.ppd.gz
|          |    rastertoextendo
|--------- +x64
|          |    hengstlerx56.ppd
|          |    hengstlerx56.ppd.gz
|          |    hengstlerx80.ppd
|          |    hengstlerx80.ppd.gz
|          |    rastertoextendo
|
+---Api
|--------- +arm
|          |    libExoApi.so.1.0
|          |    libExoTb.so.1.0
|          |    Exo_Api.h
|--------- +x86
|          |    libExoApi.so.1.0
|          |    libExoTb.so.1.0
|          |    Exo_Api.h
|--------- +x64
|          |    libExoApi.so.1.0
|          |    libExoTb.so.1.0
|          |    Exo_Api.h
|
+---Documents
|    |    S-684-018-Extendo-LinuxDriver-ReleaseNote.pdf
|    |    D-684-140-Extendo-LinuxDriver-Manual.pdf
|
```

```
+---Tools
|--------- +arm
|          |     Exo_InquiryTool
|          |     Exo_Demo_FormFeed
|          |     Exo_Demo_InquiryStatus
|          |     Exo_Demo_PageLength
|          |     libExoApi.so.1.0
|          |     libExoTb.so.1.0
|          |     README.txt
|--------- +x86
|          |     Exo_InquiryTool
|          |     Exo_Demo_FormFeed
|          |     Exo_Demo_InquiryStatus
|          |     Exo_Demo_PageLength
|          |     libExoApi.so.1.0
|          |     libExoTb.so.1.0
|          |     README.txt
|--------- +x64
|          |     Exo_InquiryTool
|          |     Exo_Demo_FormFeed
|          |     Exo_Demo_InquiryStatus
|          |     Exo_Demo_PageLength
|          |     libExoApi.so.1.0
|          |     libExoTb.so.1.0
|          |     README.txt
|
+---Sources
|          |     Exo_Api.h
|          |     Exo_Demo_FormFeed.c
|          |     Exo_Demo_InquiryStatus.c
|          |     Exo_Demo_PageLength.c
|          |     README.txt
```

List of files/components

Date	Time	Size	File	Version	Description
N/A	N/A	N/A	S-684-018-Extendo-LinuxDriver-R3-V1_04b-BETA-2018JUN25.zip	R3-V1.04b	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R3-V1.04b	Short description of driver package
N/A	N/A	N/A	install_x86	R3-V1.04b	Installation script for Linux x86
N/A	N/A	N/A	install_arm	R3-V1.04b	Installation script for Linux arm
N/A	N/A	N/A	install_x64	R3-V1.04b	Installation script for Linux x64
N/A	N/A	N/A	uninstall_x86	R3-V1.04b	Un-installation script for Linux x86
N/A	N/A	N/A	uninstall_arm	R3-V1.04b	Un-installation script for Linux arm
N/A	N/A	N/A	uninstall_x64	R3-V1.04b	Un-installation script for Linux x64
N/A	N/A	N/A	S-684-018-Extendo-LinuxDriver-ReleaseNote.pdf	R3-V1.04b	Release note of the driver package
N/A	N/A	N/A	D-684-140-Extendo-LinuxDriver-Manual.pdf	R3-V1.04b	Linux driver manual
N/A	N/A	N/A	libExoTb.so.1.0	R3-V1.04b	Include file specifying eXtendo Tool Box with various functionality (Linux library x86/arm)
N/A	N/A	N/A	libExoApi.so.1.0	R3-V1.04b	Application Programming Interface/API (Linux library x86/arm)
N/A	N/A	N/A	Exo_Api.h	R3-V1.04b	Include file specifying eXtendo Application Programming Interface(API)

N/A	N/A	N/A	hengstlerx56.ppd	R3-V1.04b	Driver component => information file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd	R3-V1.04b	Driver component => information file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	hengstlerx56.ppd.gz	R3-V1.04b	Driver component => information archive file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd.gz	R3-V1.04b	Driver component => information archive file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	Exo_InquiryTool	R3-V1.04b	Driver component => Inquiry tool for checking eXtendo printer status
N/A	N/A	N/A	Exo_Demo_FormFeed	R3-V1.04b	Driver component => Demo application for sending form feed
N/A	N/A	N/A	Exo_Demo_InquiryStatus	R3-V1.04b	Driver component => Demo application for inquiring printer status package
N/A	N/A	N/A	Exo_Demo_PageLength	R3-V1.04b	Driver component => Demo application for setting page length
N/A	N/A	N/A	Sources\README.TXT	R3-V1.04b	Instruction for demo applications, how to compile sources and run them
N/A	N/A	N/A	Exo_Demo_FormFeed.c	R3-V1.04b	Source file of demo application for evaluating purposes
N/A	N/A	N/A	Exo_Demo_InquiryStatus.c	R3-V1.04b	Source file of demo application for evaluating purposes
N/A	N/A	N/A	Exo_Demo_PageLength.c	R3-V1.04b	Source file of demo application for evaluating purposes

List of modifications

Id	Components	Version	Description
TKA-MOD-01	Extendo Linux Driver	R3-V1.04b	Exo_API implemented FIFO buffer for inquiring data partly, separate package header data and body data.
TKA-MOD-02	Extendo Linux Driver	R3-V1.04b	Exo_Demo_InquiryStatus adapted for inquiring separate header data and separate body data.

Installation

Installation of the eXtendo printer driver for use with USB-type printers is started by using the "**install_x86**" script for x86 systems, "**install_x64**" script for x64 systems and "**install_arm**" script for arm systems in driver folder, which will copy necessary files to system folders for particular system type, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the eXtendo printer driver for use with X-56 / X-80 USB -type printers is started by connecting the printer.

The eXtendo X-56 printer driver information file is "hengstlerx56.ppd" for the X-56 type printer.

The eXtendo X-80 printer driver information file is "hengstlerx80.ppd" for the X-80 type printer.

The eXtendo printer driver README.TXT contains more information on eXtendo printer driver installation.

Removal
The "**uninstall_x86**" script is to be used for the removal of installed eXtendo printer driver files from **x86** sytems. The "**uninstall_x64**" script is to be used for the removal of installed eXtendo printer driver files from **x64** sytems. The "**uninstall_arm**" script is to be used for the removal of installed eXtendo printer driver files from **arm** sytems.
Uninstallation of installed eXtendo printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by use of "localhost:631" in your web browser.

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.

Documentation
The eXtendo Linux Driver manual is available as Hengstler document D-684-140.
The eXtendo emulation command set manual is available as Hengstler document D-684-112 [1].

Notes
Firmware patch #00000001 must be enabled with the Exo-FwPatchTool when eXtendo firmware S684014-R1-V1.00-2007DEC21 has been installed on early prototype X-56 and X-80 printers which have controller board A or B. The Exo-FwPatchTool which comes in the Windows XP driver package [2].

11 EXTENDO LINUX-DRIVER S684018-R3-V1.04d-BETA 2018JUL31

Description

The eXtendo printer driver S684018-R3-V1.04d-BETA 2018JUL31 is developed for Linux **x86** / **x64** and **arm** processor type and USB 2.0 support and is currently operational with all eXtendo X-56 / X-80 type printers (USB /RS232) that have firmware S684014 installed.

List of modifications

=> R3-V1.04d– BETA – 2018JUL31 – RELEASED VERSION

6th released version of the eXtendo printer driver for Linux **x86** / **x64** and **arm** system types with USB 2.0 support.

Mod-Id	Component	Version	Description

Package overview

```
|    S-684-018-Extendo-LinuxDriver-R3-V1_04d-BETA-2018JUL31.zip
|    README.TXT
|    install_x86
|    install_x64
|    install_arm
|    uninstall_x86
|    uninstall_arm
|
+---Driver
|--------- +arm
|         |    hengstlerx56.ppd
|         |    hengstlerx56.ppd.gz
|         |    hengstlerx80.ppd
|         |    hengstlerx80.ppd.gz
|         |    rastertoextendo
|--------- +x86
|         |    hengstlerx56.ppd
|         |    hengstlerx56.ppd.gz
|         |    hengstlerx80.ppd
|         |    hengstlerx80.ppd.gz
|         |    rastertoextendo
|--------- +x64
|         |    hengstlerx56.ppd
|         |    hengstlerx56.ppd.gz
|         |    hengstlerx80.ppd
|         |    hengstlerx80.ppd.gz
|         |    rastertoextendo
|
+---Api
|--------- +arm
|         |    libExoApi.so.1.0
|         |    libExoTb.so.1.0
|         |    Exo_Api.h
|--------- +x86
|         |    libExoApi.so.1.0
|         |    libExoTb.so.1.0
|         |    Exo_Api.h
|--------- +x64
|         |    libExoApi.so.1.0
|         |    libExoTb.so.1.0
|         |    Exo_Api.h
|
+---Documents
|    |    S-684-018-Extendo-LinuxDriver-ReleaseNote.pdf
|    |    D-684-140-Extendo-LinuxDriver-Manual.pdf
|
```

```
+---Tools
|--------- +arm
|          |    Exo_InquiryTool
|          |    Exo_Demo_FormFeed
|          |    Exo_Demo_InquiryStatus
|          |    Exo_Demo_PageLength
|          |    libExoApi.so.1.0
|          |    libExoTb.so.1.0
|          |    README.txt
|--------- +x86
|          |    Exo_InquiryTool
|          |    Exo_Demo_FormFeed
|          |    Exo_Demo_InquiryStatus
|          |    Exo_Demo_PageLength
|          |    libExoApi.so.1.0
|          |    libExoTb.so.1.0
|          |    README.txt
|--------- +x64
|          |    Exo_InquiryTool
|          |    Exo_Demo_FormFeed
|          |    Exo_Demo_InquiryStatus
|          |    Exo_Demo_PageLength
|          |    libExoApi.so.1.0
|          |    libExoTb.so.1.0
|          |    README.txt
|
+---Sources
|          |    Exo_Api.h
|          |    Exo_Demo_FormFeed.c
|          |    Exo_Demo_InquiryStatus.c
|          |    Exo_Demo_PageLength.c
|          |    README.txt
```

List of files/components

Date	Time	Size	File	Version	Description
N/A	N/A	N/A	S-684-018-Extendo-LinuxDriver-R3-V1_04d-BETA-2018JUL31.zip	R3-V1.04b	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R3-V1.04b	Short description of driver package
N/A	N/A	N/A	install_x86	R3-V1.04b	Installation script for Linux x86
N/A	N/A	N/A	install_arm	R3-V1.04b	Installation script for Linux arm
N/A	N/A	N/A	install_x64	R3-V1.04b	Installation script for Linux x64
N/A	N/A	N/A	uninstall_x86	R3-V1.04b	Un-installation script for Linux x86
N/A	N/A	N/A	uninstall_arm	R3-V1.04b	Un-installation script for Linux arm
N/A	N/A	N/A	uninstall_x64	R3-V1.04b	Un-installation script for Linux x64
N/A	N/A	N/A	S-684-018-Extendo-LinuxDriver-ReleaseNote.pdf	R3-V1.04b	Release note of the driver package
N/A	N/A	N/A	D-684-140-Extendo-LinuxDriver-Manual.pdf	R3-V1.04b	Linux driver manual
N/A	N/A	N/A	libExoTb.so.1.0	R3-V1.04b	Include file specifying eXtendo Tool Box with various functionality (Linux library x86/arm)
N/A	N/A	N/A	libExoApi.so.1.0	R3-V1.04b	Application Programming Interface/API (Linux library x86/arm)
N/A	N/A	N/A	Exo_Api.h	R3-V1.04b	Include file specifying eXtendo Application Programming Interface(API)

N/A	N/A	N/A	hengstlerx56.ppd	R3-V1.04b	Driver component => information file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd	R3-V1.04b	Driver component => information file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	hengstlerx56.ppd.gz	R3-V1.04b	Driver component => information archive file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd.gz	R3-V1.04b	Driver component => information archive file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	Exo_InquiryTool	R3-V1.04b	Driver component => Inquiry tool for checking eXtendo printer status
N/A	N/A	N/A	Exo_Demo_FormFeed	R3-V1.04b	Driver component => Demo application for sending form feed
N/A	N/A	N/A	Exo_Demo_InquiryStatus	R3-V1.04b	Driver component => Demo application for inquiring printer status package
N/A	N/A	N/A	Exo_Demo_PageLength	R3-V1.04b	Driver component => Demo application for setting page length
N/A	N/A	N/A	Sources\README.TXT	R3-V1.04b	Instruction for demo applications, how to compile sources and run them
N/A	N/A	N/A	Exo_Demo_FormFeed.c	R3-V1.04b	Source file of demo application for evaluating purposes
N/A	N/A	N/A	Exo_Demo_InquiryStatus.c	R3-V1.04b	Source file of demo application for evaluating purposes
N/A	N/A	N/A	Exo_Demo_PageLength.c	R3-V1.04b	Source file of demo application for evaluating purposes

List of modifications

Id	Components	Version	Description
TKA-MOD-01	Extendo Linux Driver	R3-V1.04c	Exo_API Timing delays corrected to original values for reading/writing.
TKA-MOD-02	Extendo Linux Driver	R3-V1.04d	Exo_API FIFO buffer correction of data inquiry length

Installation

Installation of the eXtendo printer driver for use with USB-type printers is started by using the "**install_x86**" script for x86 systems, "**install_x64**" script for x64 systems and "**install_arm**" script for arm systems in driver folder, which will copy necessary files to system folders for particular system type, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the eXtendo printer driver for use with X-56 / X-80 USB -type printers is started by connecting the printer.

The eXtendo X-56 printer driver information file is "hengstlerx56.ppd" for the X-56 type printer.

The eXtendo X-80 printer driver information file is "hengstlerx80.ppd" for the X-80 type printer.

The eXtendo printer driver README.TXT contains more information on eXtendo printer driver installation.

Removal
The "**uninstall_x86**" script is to be used for the removal of installed eXtendo printer driver files from **x86** sytems.   The "**uninstall_x64**" script is to be used for the removal of installed eXtendo printer driver files from **x64** sytems.   The "**uninstall_arm**" script is to be used for the removal of installed eXtendo printer driver files from **arm** sytems.
Uninstallation of installed eXtendo printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by use of "localhost:631" in your web browser.

List of anomalies and bugs	
TKA-BUG-01	RS232 Communication currently not working correctly (only with serial printers)
TKA-BUG-02	Plug&Play does not work on all Linux platforms (x86/ x64) - probably issue with Linux kernel and usage of new libusb library

List of incompatibilities to previous versions
Currently no incompatibilities are known.

List of restrictions
Currently no restrictions are known.

Documentation
The eXtendo Linux Driver manual is available as Hengstler document D-684-140.
The eXtendo emulation command set manual is available as Hengstler document D-684-112 [1].

Notes
Firmware patch #00000001 must be enabled with the Exo-FwPatchTool when eXtendo firmware S684014-R1-V1.00-2007DEC21 has been installed on early prototype X-56 and X-80 printers which have controller board A or B. The Exo-FwPatchTool which comes in the Windows XP driver package [2].

12 EXTENDO LINUX-DRIVER S684018-R3-V1.04e-BETA 2018AUG14

Description

The eXtendo printer driver S684018-R3-V1.04e-BETA 2018AUG14 is developed for Linux **x86** / **x64** and **arm** processor type and USB 2.0 support and is currently operational with all eXtendo X-56 / X-80 type printers (USB /RS232) that have firmware S684014 installed.

List of modifications

=> R3-V1.04e– BETA – 2018AUG14 – RELEASED VERSION

6th released version of the eXtendo printer driver for Linux **x86 / x64** and **arm** system types with USB 2.0 support.

Mod-Id	Component	Version	Description

Package overview

```
|   S-684-018-Extendo-LinuxDriver-R3-V1_04e-BETA-2018AUG14.zip
|   README.TXT
|   install_x86
|   install_x64
|   install_arm
|   uninstall_x86
|   uninstall_arm
|
+---Driver
|--------- +arm
|         |    hengstlerx56.ppd
|         |    hengstlerx56.ppd.gz
|         |    hengstlerx80.ppd
|         |    hengstlerx80.ppd.gz
|         |    rastertoextendo
|--------- +x86
|         |    hengstlerx56.ppd
|         |    hengstlerx56.ppd.gz
|         |    hengstlerx80.ppd
|         |    hengstlerx80.ppd.gz
|         |    rastertoextendo
|--------- +x64
|         |    hengstlerx56.ppd
|         |    hengstlerx56.ppd.gz
|         |    hengstlerx80.ppd
|         |    hengstlerx80.ppd.gz
|         |    rastertoextendo
|
+---Api
|--------- +arm
|         |    libExoApi.so.1.0
|         |    libExoTb.so.1.0
|         |    Exo_Api.h
|--------- +x86
|         |    libExoApi.so.1.0
|         |    libExoTb.so.1.0
|         |    Exo_Api.h
|--------- +x64
|         |    libExoApi.so.1.0
|         |    libExoTb.so.1.0
|         |    Exo_Api.h
|
+---Documents
|    |    S-684-018-Extendo-LinuxDriver-ReleaseNote.pdf
|    |    D-684-140-Extendo-LinuxDriver-Manual.pdf
|
```

```
+---Tools
|--------- +arm
|         |   Exo_InquiryTool
|         |   Exo_Demo_FormFeed
|         |   Exo_Demo_InquiryStatus
|         |   Exo_Demo_PageLength
|         |   libExoApi.so.1.0
|         |   libExoTb.so.1.0
|         |   README.txt
|--------- +x86
|         |   Exo_InquiryTool
|         |   Exo_Demo_FormFeed
|         |   Exo_Demo_InquiryStatus
|         |   Exo_Demo_PageLength
|         |   libExoApi.so.1.0
|         |   libExoTb.so.1.0
|         |   README.txt
|--------- +x64
|         |   Exo_InquiryTool
|         |   Exo_Demo_FormFeed
|         |   Exo_Demo_InquiryStatus
|         |   Exo_Demo_PageLength
|         |   libExoApi.so.1.0
|         |   libExoTb.so.1.0
|         |   README.txt
|
+---Sources
|         |   Exo_Api.h
|         |   Exo_Demo_FormFeed.c
|         |   Exo_Demo_InquiryStatus.c
|         |   Exo_Demo_PageLength.c
|         |   README.txt
```

List of files/components

Date	Time	Size	File	Version	Description
N/A	N/A	N/A	S-684-018-Extendo-LinuxDriver-R3-V1_04e-BETA-2018AUG14.zip	R3-V1.04e	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R3-V1.04e	Short description of driver package
N/A	N/A	N/A	install_x86	R3-V1.04e	Installation script for Linux x86
N/A	N/A	N/A	install_arm	R3-V1.04e	Installation script for Linux arm
N/A	N/A	N/A	install_x64	R3-V1.04e	Installation script for Linux x64
N/A	N/A	N/A	uninstall_x86	R3-V1.04e	Un-installation script for Linux x86
N/A	N/A	N/A	uninstall_arm	R3-V1.04e	Un-installation script for Linux arm
N/A	N/A	N/A	uninstall_x64	R3-V1.04e	Un-installation script for Linux x64
N/A	N/A	N/A	S-684-018-Extendo-LinuxDriver-ReleaseNote.pdf	R3-V1.04e	Release note of the driver package
N/A	N/A	N/A	D-684-140-Extendo-LinuxDriver-Manual.pdf	R3-V1.04e	Linux driver manual
N/A	N/A	N/A	libExoTb.so.1.0	R3-V1.04e	Include file specifying eXtendo Tool Box with various functionality (Linux library x86/arm)
N/A	N/A	N/A	libExoApi.so.1.0	R3-V1.04e	Application Programming Interface/API (Linux library x86/arm)
N/A	N/A	N/A	Exo_Api.h	R3-V1.04e	Include file specifying eXtendo Application Programming Interface(API)

N/A	N/A	N/A	hengstlerx56.ppd	R3-V1.04e	Driver component => information file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd	R3-V1.04e	Driver component => information file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	hengstlerx56.ppd.gz	R3-V1.04e	Driver component => information archive file required for installation of the eXtendo X56 driver
N/A	N/A	N/A	hengstlerx80.ppd.gz	R3-V1.04e	Driver component => information archive file required for installation of the eXtendo X80 driver
N/A	N/A	N/A	Exo_InquiryTool	R3-V1.04e	Driver component => Inquiry tool for checking eXtendo printer status
N/A	N/A	N/A	Exo_Demo_FormFeed	R3-V1.04e	Driver component => Demo application for sending form feed
N/A	N/A	N/A	Exo_Demo_InquiryStatus	R3-V1.04e	Driver component => Demo application for inquiring printer status package
N/A	N/A	N/A	Exo_Demo_PageLength	R3-V1.04e	Driver component => Demo application for setting page length
N/A	N/A	N/A	Sources\README.TXT	R3-V1.04e	Instruction for demo applications, how to compile sources and run them
N/A	N/A	N/A	Exo_Demo_FormFeed.c	R3-V1.04e	Source file of demo application for evaluating purposes
N/A	N/A	N/A	Exo_Demo_InquiryStatus.c	R3-V1.04e	Source file of demo application for evaluating purposes
N/A	N/A	N/A	Exo_Demo_PageLength.c	R3-V1.04b	Source file of demo application for evaluating purposes

List of modifications

Id	Components	Version	Description
TKA-MOD-01	Extendo Linux Driver	R3-V1.04e	Exo_API Timing delays of "exo_api_printer_clear" corrected to original values.
TKA-MOD-02	Extendo Linux Driver	R3-V1.04e	Exo_API now compatible also with Ubuntu 18.04 64 bit platform. Handle type "int" has been changed to "int pointer" which ensure that under all 64/32 bit platform handle gets correct value.

Installation

Installation of the eXtendo printer driver for use with USB-type printers is started by using the "**install_x86**" script for x86 systems, "**install_x64**" script for x64 systems and "**install_arm**" script for arm systems in driver folder, which will copy necessary files to system folders for particular system type, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the eXtendo printer driver for use with X-56 / X-80 USB -type printers is started by connecting the printer.

The eXtendo X-56 printer driver information file is "hengstlerx56.ppd" for the X-56 type printer.
The eXtendo X-80 printer driver information file is "hengstlerx80.ppd" for the X-80 type printer.
The eXtendo printer driver README.TXT contains more information on eXtendo printer driver installation.

Removal
The "**uninstall_x86**" script is to be used for the removal of installed eXtendo printer driver files from **x86** sytems.
The "**uninstall_x64**" script is to be used for the removal of installed eXtendo printer driver files from **x64** sytems.
The "**uninstall_arm**" script is to be used for the removal of installed eXtendo printer driver files from **arm** sytems.
Uninstallation of installed eXtendo printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by use of "localhost:631" in your web browser.

List of anomalies and bugs	
TKA-BUG-01	RS232 Communication currently not working correctly (only with serial printers)
TKA-BUG-02	Plug&Play does not work on all Linux platforms (x86/ x64) - probably issue with Linux kernel and usage of new libusb library

List of incompatibilities to previous versions
Currently no incompatibilities are known.

List of restrictions
Currently no restrictions are known.

Documentation
The eXtendo Linux Driver manual is available as Hengstler document D-684-140.
The eXtendo emulation command set manual is available as Hengstler document D-684-112 [1].

Notes
Firmware patch #00000001 must be enabled with the Exo-FwPatchTool when eXtendo firmware S684014-R1-V1.00-2007DEC21 has been installed on early prototype X-56 and X-80 printers which have controller board A or B. The Exo-FwPatchTool which comes in the Windows XP driver package [2].

List of tested platforms	
Board types	**Linux platform**
USB 1.1 / USB 2.0	Mint 18.1 – 32bit
USB 1.1 / USB 2.0	Mint 18.1 – 64bit
USB 1.1 / USB 2.0	Red Hat 7.5 – 64bit
USB 1.1 / USB 2.0	Ubuntu 18.04 – 64bit
USB 1.1 / USB 2.0	Raspbian (Debian light) – Raspberry PI 2 - ARM7