

Hitachi Content Platform Anywhere

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Preface

The Hitachi Content Platform Anywhere (**HCP Anywhere**) software incorporates third-party software from a number of vendors. This book contains the copyright and license information for that software.

Intended audience

This book is intended for all HCP Anywhere users.

Product version

This book applies to release 2.0 of HCP Anywhere.

Related documents

These documents contain additional information about HCP Anywhere:

HCP Anywhere Administrator Help — This set of help topics contains
the instructions you need to use the HCP Anywhere Management
Console to configure and monitor an HCP Anywhere system and its
hardware. This set of help topics also includes instructions on
administering the file synchronization and sharing and HDI device
management features.

This set of help topics is accessible from the HCP Anywhere Management Console.

Preface **vii**

 HCP Anywhere User Help — This set of help topics explains how to use HCP Anywhere for file storage and synchronization. These topics discuss the file synchronization interfaces that HCP Anywhere provides, which include desktop and mobile applications and a web application called the User Portal.

This set of help topics is accessible from the HCP Anywhere User Portal.

• Installing an HCP Anywhere System – Final On-site Setup — This book contains instructions for deploying an assembled and configured physical HCP Anywhere system at a customer site. It explains how to make the necessary physical connections and reconfigure the system for the customer computing environment. It also contains instructions for configuring Hi-Track[®] Monitor to monitor an HCP Anywhere system.

Getting help

The Hitachi Data Systems customer support staff is available 24 hours a day, seven days a week. If you need technical support, log on to the Hitachi Data Systems Portal for contact information: https://portal.hds.com.

Comments

Please send us your comments on this document:

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Include the document title, number, and product version number, and refer to specific sections and paragraphs whenever possible. All comments become the property of Hitachi Data Systems.

Thank you!

viii Preface



Introduction

The HCP Anywhere operating system is based on the open source operating system, Fedora 20, from the Fedora Project (http://fedoraproject.org).

The HCP Anywhere system software and file synchronization and sharing applications incorporate multiple open source software packages.

Unless otherwise indicated in this book, open source and third-party software is used without modification.

To obtain any of the open source software packages mentioned in this book, please contact:

Project Manager, HCP Anywhere Hitachi Data Systems Corporation 2845 Lafayette Street Santa Clara, CA 95050

Hitachi Data Systems gratefully acknowledges the contributions of the open source community in the development of the HCP Anywhere operating system, HCP Anywhere system software, and file synchronization and sharing applications.

Chapter 1: Introduction

Unmodified Fedora components

This chapter contains a table of unmodified Fedora packages used in the HCP Anywhere operating system. The packages are broken out by the licenses that apply to them. Under each license, the packages are presented in alphabetical order. For each package, the table shows the package version, Fedora release, and copyright (where required).

This chapter contains a table of unmodified Fedora packages used in the HCP Anywhere operating system. The packages are broken out by the licenses that apply to them. Under each license, the packages are presented in alphabetical order. For each package, the table shows the package version, Fedora release, and copyright (where required).



Note: The Fedora binary distribution on which the HCP Anywhere operating system is based does not provide the required copyright notices for included BSD-licensed software. The copyright notices listed in this chapter were generated using in-house automated processes to scan the source code provided by the Fedora Project. Every effort has been made to find as many of these notices as possible. However, variations in how the notices are expressed in the source code create the possibility that some notices were missed.

If this chapter is missing expected copyright notices, please verify their presence in the Fedora upstream source RPMs. Then notify the HCP Anywhere product manager of the issue. For the product manager contact information, "Chapter 1: Introduction" on page 1.

For a list of the modified Fedora packages used in the HCP Anywhere operating system, "Chapter 3: Modified Fedora packages" on page 273.

For the text of the licenses identified in this section, <u>"Chapter 5: Licenses for third-party components"</u> on page 309.

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"GNU General Pub		<mark>2 (GPLv2)"</mark> on page 38	b with acknowledgement (see <u>"Freetype License"</u> on page 371, 5, <u>"BSD 3-Clause License"</u> on page 326, <u>"MIT License"</u> on
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java-1.7.0- openjdk	1.7.0.65	2.5.2.5.fc20			
java-1.7.0- openjdk-devel	1.7.0.65	2.5.2.5.fc20			
java-1.7.0- openjdk-head- less	1.7.0.65	2.5.2.5.fc20			
ASL 2.0 (see "Apac	ASL 2.0 (see "Apache License, version 2.0" on page 316)				
apache-com- mons-col- lections	3.2.1	19.fc20			
apache-com- mons-daemon	1.0.15	4.fc20			
apache-com- mons-daemon-	1.0.15	4.fc20			

Chapter 2: Unmodified Fedora components

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jsvc			
apache-com- mons-dbcp	1.4	14.fc20	
apache-com- mons-logging	1.1.3	8.fc20	
apache-com- mons-pool	1.6	7.fc20	
avalon-frame- work	4.3	9.fc20	
avalon-logkit	2.1	13.fc20	
geronimo-jms	1.1.1	17.fc20	
geronimo-jta	1.1.1	15.fc20	
log4j	1.2.17	14.fc20	
python3- requests	1.2.3	5.fc20	
tomcat-el-2.2- api	7.0.54	4.fc20	
tomcat-jsp- 2.2-api	7.0.54	4.fc20	
tomcat-jsvc	7.0.54	4.fc20	
tomcat-lib	7.0.54	4.fc20	
tomcat-ser- vlet-3.0-api	7.0.54	4.fc20	

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xml-commons- resolver	1.2	14.fc20	
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xml-commons- apis	1.4.01	14.fc20	
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device-mapper	1.02.85	1.fc20	
device-mapper- event	1.02.85	1.fc20	
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kernel	3.14.6	200.fc20	
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GPLv2+ (see "GNU	General Public Lic	tense, Version 2 (GPLv2	<u>)"</u> on page 385)
acl	2.2.52	4.fc20	
асрі	1.7	1.fc20	
acpid	2.0.21	1.fc20	
attr	2.4.47	3.fc20	
audit	2.4	2.fc20	
authconfig	6.2.6	4.fc20	
bc	1.06.95	10.fc20	
dmidecode	2.12	4.fc20	
grubby	8.28	1.fc20	
hostname	3.13	2.fc20	
hwdata	0.270	2.fc20	
iotop	0.6	2.fc20	

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jbigkit	2.0	10.fc20	
jbigkit-libs	2.0	10.fc20	
kbd	1.15.5	12.fc20	
kbd-legacy	1.15.5	12.fc20	
kbd-misc	1.15.5	12.fc20	
kmod	15	1.fc20	
libnetfilter_con- ntrack	1.0.4	1.fc20	
libnetfilter_ cttimeout	1.0.0	3.fc20	
libnfnetlink	1.0.1	3.fc20	

Chapter 2: Unmodified Fedora components

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libreport-filesys- tem	2.2.3	2.fc20	
linuxconsoletools	1.4.6	2.fc20	
Irzsz	0.12.20	34.fc20	
Isscsi	0.27	2.fc20	
Itrace	0.7.2	9.fc20	
Izma	4.32.7	10.fc20	
Izo	2.08	1.fc20	
make	3.82	19.fc20	
mdadm	3.3	7.fc20	
mingetty	1.08	14.fc20	
net-tools	2.0	0.15.20131119git.fc20	
pciutils	3.2.1	2.fc20	
pciutils-libs	3.2.1	2.fc20	
pinentry	0.8.1	11.fc20	
pkgconfig	0.28	3.fc20	
psmisc	22.20	3.fc20	
rng-tools	4	4.fc20	
rpm	4.11.3	1.fc20	
rpm-python	4.11.3	1.fc20	
screen	4.1.0	0.18.20120314git3c2946.fc20	
shared-mime- info	1.2	7.fc20	
slang	2.2.4	11.fc20	
smartmontools	6.2	6.fc20	

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sysstat	10.1.6	1.fc20	
sysvinit-tools	2.88	14.dsf.fc20	
time	1.7	44.fc20	
traceroute	2.0.20	1.fc20	
tree	1.6.0	11.fc20	
yum	3.4.3	152.fc20	
yum-utils	1.1.31	23.fc20	
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man-db	2.6.5	5.fc20	
GPLv2+ and LGPLv2 Version 2+ (GPLv2+			(GPLv2)" on page 385 and "GNU General Public License,
cryptsetup	1.6.4	1.fc20	
cryptsetup-libs	1.6.4	1.fc20	
dracut	037	11.git20140402.fc20	
dracut-network	037	11.git20140402.fc20	
keyutils	1.5.9	1.fc20	
keyutils-libs	1.5.9	1.fc20	
liblockfile	1.08	16.fc20	
pacemaker	1.1.11	1.fc20	
pacemaker-cli	1.1.11	1.fc20	

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pacemaker- cluster-libs	1.1.11	1.fc20		
pacemaker-libs	1.1.11	1.fc20		
resource-agents	3.9.5	9.fc20		
		reptions (see "GNU General Public Lie v2+)" on page 392)	cense, Version 2 (GPLv2) on page 385 and GNU General	
rpm-build-libs	4.11.3	1.fc20		
rpm-libs	4.11.3	1.fc20		
GPLv2+ and Public D	Domain (see	e "GNU General Public License, Versi	ion 2 (GPLv2)" on page 385)	
iproute	3.14.0	2.fc20		
GPLv2+ or AFL (see	"GNU Gene	eral Public License, Version 2 (GPLv2	2)" on page 385)	
dbus	1.6.12	9.fc20		
dbus-libs	1.6.12	9.fc20		
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elfutils-libelf	0.160	1.fc20	
elfutils-libs	0.160	1.fc20	
GPLv3 (see "GNU	General Public Lice	ense, Version 3 (GPLv3)	on page 393)
crash	7.0.3	1.fc20	
which	2.20	6.fc20	
GPLv3+ (see <u>"GN</u>	U General Public L	icense, Version 3 (GPLv3	<u>8)"</u> on page 393)
bash	4.2.53	1.fc20	
binutils	2.23.88.0.1	13.fc20	
coreutils	8.21	21.fc20	
cpio	2.11	25.fc20	
device-map- per-per- sistent-data	0.3.2	1.fc20	
diffutils	3.3	4.fc20	
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emacs-nox	24.3	25.fc20	
findutils	4.5.11	4.fc20	

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grep	2.18	1.fc20	
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less	458	7.fc20	
libpipeline	1.2.4	2.fc20	
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sed	4.2.2	6.fc20	
tar	1.26	31.fc20	
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elfutils	0.160	1.fc20	
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jasper-libs	1.900.1	25.fc20	
LGPLv2 (see "GN	U General Pub	olic License, Version 2+ (GPLv	2+)" on page 392)
device-map- per-event-libs	1.02.85	1.fc20	
device-map- per-libs	1.02.85	1.fc20	
dialog	1.2	4.20130902.fc20	
libcroco	0.6.8	3.fc20	
lockdev	1.0.4	0.11.20111007git.fc20	
lvm2-libs	2.02.106	1.fc20	
newt	0.52.16	2.fc20	
newt-python	0.52.16	2.fc20	
python- chardet	2.0.1	7.fc20	
LGPLv2 and GPLv Version 2 (GPLv2			n 2+ (GPLv2+)" on page 392 and "GNU General Public License,
numactl-libs	2.0.9	2.fc20	
LGPLv2 and zlib (see <u>"GNU Gen</u>	eral Public License, Version 2	+ (GPLv2+)" on page 392 and "zlib License" on page 509)
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LGPLv2+ (see "G	iNU General Pu	ublic License, Version 2+ (GPL	v2+)" on page 392)
SDL	1.2.15	13.fc20	
alsa-lib	1.0.27.2	2.fc20	
atk	2.10.0	1.fc20	
audit-libs	2.4	2.fc20	
avahi-libs	0.6.31	21.fc20	
cracklib	2.9.0	5.fc20	
cracklib-dicts	2.9.0	5.fc20	
fuse-libs	2.9.3	2.fc20	
gdk-pixbuf2	2.30.3	1.fc20	
glib2	2.38.2	2.fc20	
gpgme	1.3.2	4.fc20	

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gtk2	2.24.24	2.fc20	
kmod-libs	15	1.fc20	
libacl	2.2.52	4.fc20	
libaio	0.3.109	8.fc20	
libasyncns	0.8	6.fc20	
libattr	2.4.47	3.fc20	
libblkid	2.24.2	1.fc20	
libcap	2.22	7.fc20	
libcap-ng	0.7.4	1.fc20	
libesmtp	1.0.6	6.fc20	
libestr	0.1.9	1.fc20	
libgcrypt	1.5.3	2.fc20	
libgpg-error	1.12	1.fc20	
libmnl	1.0.3	6.fc20	
libmount	2.24.2	1.fc20	
libqb	0.17.0	1.fc20	
libsemanage	2.1.10	14.fc20	
libsepol	2.1.9	2.fc20	
libsysfs	2.1.0	15.fc20	
libthai	0.1.20	1.fc20	

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libtool-ltdl	2.4.2	24.fc20	
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libusbx	1.0.19	1.fc20	
libuser	0.60	3.fc20	
libutempter	1.1.6	3.fc20	
Izma-libs	4.32.7	10.fc20	
nettle	2.7.1	3.fc20	
pango	1.36.1	3.fc20	
pth	2.0.7	21.fc20	
pulseaudio-libs	5.0	7.fc20	
pygpgme	0.3	8.fc20	
python-kitchen	1.1.1	5.fc20	
python-url- grabber	3.10.1	0.fc20	
python3- chardet	2.0.1	10.fc20	
pyxattr	0.5.1	4.fc20	
qrencode-libs	3.4.2	1.fc20	
ttmkfdir	3.0.9	40.fc20	
XZ	5.1.2	12alpha.fc20	
xz-libs	5.1.2	12alpha.fc20	
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libassuan	2.1.0	2.fc20			

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glibc	2.18	16.fc20				
glibc-common	2.18	16.fc20				
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autogen-libopts	5.18	1.fc20	
gmp	5.1.2	2.fc20	
libunistring	0.9.3	9.fc20	
pyliblzma	0.5.3	10.fc20	
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python-psy- copg2	2.5.1	2.fc20	
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nss-softokn- freebl	3.17.1	2.fc20	
nss-sysinit	3.17.1	1.fc20	
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python-dateutil	1.5	7.fc20		
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vim-common	7.4.417	1.fc20				
vim-enhanced	7.4.417	1.fc20				
vim-filesystem	7.4.417	1.fc20				
vim-minimal	7.4.417	1.fc20				
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Modified Fedora packages

This chapter identifies the modified Fedora packages embedded in the HCP Anywhere operating system. Each software package is listed with an indication of where to get it, its copyright (where required), and its license information. The software packages are presented in alphabetical order within each section.

For a list of the unmodified Fedora components used in the HCP Anywhere operating system, see <u>"Chapter 2: Unmodified Fedora components"</u> on page 3.

For the text of the licenses identified in this section, see <u>"Chapter 5:</u> <u>Licenses for third-party components"</u> on page 309.

Apache Tomcat tomcat-el-2.2.-api tomcat-jsp-2.2-api tomcat-jsvc tomcat-lib tomcat-servlet-3.0-api Version 7.0.54

Source

http://tomcat.apache.org/

License text

See "Apache License, version 2.0" on page 316.

Third-party package

busybox Version 1.19.4-11

Source

http://www.busybox.net/

License text

See "GNU General Public License, Version 2 (GPLv2)" on page 385.



Note: Source code for busybox is available on request.

Third-party package

crmsh

Version 2.0.1.1

Source

http://crmsh.github.io

License text

See "GNU General Public License, Version 2+ (GPLv2+)" on page 392.



Note: Source code for crmsh is available on request.

grub2 grub2-tools Version 2.0.0-25

Source

http://www.gnu.org/software/grub/

License text

See "GNU General Public License, Version 3 (GPLv3)" on page 393.



Note: Source code for grub2 is available on request.

Third-party package

ICU — International Components for Unicode Version 4.8.1.1

Source

http://site.icu-project.org/home

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1.8.13

Source

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krb5

Version 1.10.2-6

Source

http://web.mit.edu/kerberos/

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krb5-workstation

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http://www.postgresql.org/

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python3-airspeed Version 0.1-1

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python3-postgresql Version 1.1.0

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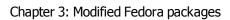
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https://github.com/chrisbanes/Android-PullToRefresh

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AOP Alliance

Version 1.0

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Apache Mina Version 2.0.4

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Apache Struts 2 Version 2.3.16.3

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Source

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ELCImagePickerController Version Sept 23, 2013

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https://github.com/elc/ELCImagePickerController

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Elvis

Version 1.0

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Google Guava Version 12.0

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History.js Version 1.7.1

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https://github.com/browserstate/history.js/

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Version 51.2

Source

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Jackson

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JavaWriter Version 2.4.0

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https://github.com/square/javawriter

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https://gist.github.com/adeelejaz/4714079

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Spring Security SAML framework Version 1.0.0

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Version 3.7.13

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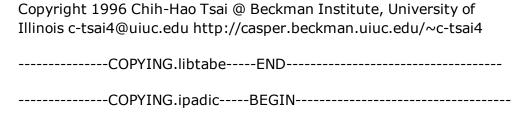
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LSI Corporation
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, anon-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived	Year	Owner	GPL-
from		cor	mpatible? (1)	
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes

2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2 5	2 - 4	2006	PSF	Ves

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zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.2, October 3rd, 2004

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Jean-loup Gailly jloup@gzip.org
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The USB firmware files "dvb-as102_data1_st.hex" and "as102_data2_st.hex" for Abilis's AS10X, used together with the AS10X USB Kernel driver, is provided under the following licensing terms:

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Agere Firmware License

```
agere_sta_fw.bin -- 9.48 Hermes I agere_ap_fw.bin -- 9.48 Hermes I
```

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The Linux driver architecture was based on two modules, the MSF (Module specific functions) and the HCF (Hardware Control Functions). Included in the HCF is run-time firmware (binary format) which is downloaded into the RAM of the Hermes 1/2/2.5 WMAC.

This hex coded firmware is not based on any open source software and hence it is not subject to any Open Source License. The firmware was developed by Agere and runs on the DISC processor embedded within the Hermes 1/2/2.5 Wireless MAC devices.

Hope this helps.

Sincerely,

Viren Pathare Intellectual Property Licensing Manager Agere

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Atmel Firmware License

This package contains firmware images for use with the driver for atmel at76c50x cards in the linux 2.6 kernel it also contains firmware images for the USB driver from http://at76c503a.berlios.de/

The prefered way to load these firmware images in to use the firmware-loading facility of the Linux hotplug system. Prerequistites for this are a kernel compiled with CONFIG_FW_LOADER and the Linux hotplug scripts later than 2003_10_07. (Check for the existance

of /etc/hotplug/firmware.agent to ensure that your hotplug scripts are sufficiently up to date.) You will also need to have sysfs mounted: add a line like this to /etc/fstab, if it is not already there.

none /sys sysfs defaults 0 0

If you do not wish to use the hotplug system, this package includes a "push" firmware loader, atmel_fwl. You should arrange to run this as root from a network-startup script or PCMCIA script _before_ the interface is brought up. The command is simply

atmel_fwl <interface> /path/to/firmware

for instance

/sbin/atmel_fwl eth0 /usr/lib/hotplug/firmware/atmel_at76c502.bin

To install the firmware package, simply run the install.sh script. That script will remove any old versions of the package that you have installed, and install the files in the correct locations.

Selecting the correct firmware image.

There are multiple firmware images in this package and the correct one must be used. If the hotplug firmware loading mechansim is in use and the driver recognises the card in its internal database, it will automatically select the correct firmware image. If the card is not in the database the driver will log a message and default to the at76c502 image. If this is not correct, the default can be overridden with the "firmware" module parameter. Since there is only one firmware image for PCI cards (at76c506) the driver should always select the correct one for them. If you card is not recognised, please send the result of running the 'dump_cis' command to simon@thekelleys.org.uk so that it can be included in future releases.

If using the "push" firmware loader there is no automatic selection of firmware image, you should ensure that the correct image is given in the atmel_fwl command-line.

Note that there are two versions of many of the firmware images, the second one with the suffix "-wpa". These are later releases from Atmel which support WPA privacy. They are only usable by versions of the driver greater than 0.9. If you use hotplug to load your firmware then all will be fine, drivers earlier than 0.9 will ignore the "-wpa" drivers and drivers after 0.9 will use them if available, or

default to the non-wpa ones if not. If you have to select a firmware image manually, be sure not to use the "-wpa" one unless your in-kernel driver code is version 0.9 or better. Sadly, as of version 0.9, the in-kernel driver does not actually support the setting of WPA passphrases.

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the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.



*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this

link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

CONFIG HOTPLUG - Support for hot-pluggable devices CONFIG_MODULES - Enable loadable module support CONFIG KMOD - Automatic kernel module loading CONFIG FW LOADER - Hotplug firmware loading support CONFIG I2C - I2C support CONFIG VIDEO DEV - Video For Linux CONFIG SOUND - Sound card support CONFIG SND - Advanced Linux Sound Architecture CONFIG USB - Support for Host-side USB CONFIG_USB_DEVICEFS - USB device filesystem

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

- EHCI HCD (USB 2.0) support

CONFIG_SND_MIXER_OSS - OSS Mixer API
CONFIG_SND_PCM_OSS - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from http://linux-hotplug.sourceforge.net/>.

Hotplugging is used for loading firmware into the Cypruss EZ-USB chip using

fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

CONFIG USB EHCI HCD

Most users should be able to compile the driver by simply running:

\$ make

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

\$ make KERNELSRC=/usr/src/linux-2.6.10-custom3

Once the compile completes, the driver and firmware files should be installed by running:

\$ make install

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra"

and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be

specified in the "force_band" parameter to the wis-sony-tuner module:

TV band	force_band
PAL B/G	В

PAL I	I
PAL D/K	D
SECAM L	L

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

TV band	Audio subcarrier	force_mpx_mode
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

options wis-sony-tuner force_band=B force_mpx_mode=2

The above example would force the tuner to the PAL B/G TV band and receive

stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

\$ modprobe -c | grep wis-sony-tuner

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver

should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the

hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

\$ apps/gorecord -duration 60 capture.avi

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed

format API, within the following criteria:

- * Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.
- * No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

- * Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.
- * MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.
- * Video parameters such as format and input port may not be changed while

the encoder is active.

- * The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.
- * The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

```
GO7007IOC S COMP PARAMS, GO7007IOC G COMP PARAMS
```

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl

with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a

pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations

of

the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

__u32 gop_size The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.

u32

The maximum number of sequential max_b_frames bidirectionally-predicted frames.
(B-frames are not yet supported.)

enum go7007_aspect_ratio The aspect ratio to be encoded in the aspect_ratio meta-data of the compressed format.

Choices are:

GO7007_ASPECT_RATIO_1_1
GO7007_ASPECT_RATIO_4_3_NTSC
GO7007_ASPECT_RATIO_4_3_PAL
GO7007_ASPECT_RATIO_16_9_NTSC
GO7007_ASPECT_RATIO_16_9_PAL

__u32 flags Bit-wise OR of control flags (below)

Flags in struct go7007 comp params:

GO7007_COMP_CLOSED_GOP Only produce self-contained GOPs, used

to produce streams appropriate for random seeking.

GO7007_COMP_OMIT_SEQ_HEADER Omit the stream sequence header.

GO7007IOC S MPEG PARAMS, GO7007IOC G MPEG PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when

the pixelformat has been set to V4L2 PIX FMT MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl

with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a

pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard

mpeg video standard

The MPEG video standard in which

to

compress the video.

Choices are:

GO7007_MPEG_VIDEO_MPEG1 GO7007_MPEG_VIDEO_MPEG2 GO7007 MPEG VIDEO MPEG4

__u32 flags Bit-wise OR of control flags (below)

__u32

The profile and level indication to be pali stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.

Choices for MPEG2 are:

GO7007 MPEG2 PROFILE MAIN

MAIN

Choices for MPEG4 are:

GO7007_MPEG4_PROFILE_S_L0

GO7007 MPEG4 PROFILE S L1

GO7007_MPEG4_PROFILE_S_L2

GO7007 MPEG4 PROFILE S L3

GO7007_MPEG4_PROFILE_ARTS_L1

GO7007_MPEG4_PROFILE_ARTS_L2

GO7007_MPEG4_PROFILE_ARTS_L3

GO7007_MPEG4_PROFILE_ARTS_L4

GO7007_MPEG4_PROFILE_AS_L0 GO7007_MPEG4_PROFILE_AS_L1 GO7007_MPEG4_PROFILE_AS_L2 GO7007_MPEG4_PROFILE_AS_L3 GO7007_MPEG4_PROFILE_AS_L4 GO7007_MPEG4_PROFILE_AS_L5

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE Force all compression parameters and

bitrate control settings to comply with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at

the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with

а

pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate

will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC S JPEGCOMP ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs

in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

```
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update
```

The following patches are included with this SDK and can be applied in any order:

```
patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff
```

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel

configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv

or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

\$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL),

and the video standard must be specified to both the raw and the compressed

video devices (xawtv and gorecord, for example).

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".
- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.
- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.
- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode.

All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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Compatibility

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The included firmware files are intended only for use with Linux at76_usb driver for USB devices using at76c503, at76c505 and at76c505a chipsets. This firmware is not intended for any other OS or driver.

This package only includes only the firmware versions known to work best with the current at76_usb driver.

Installation

The firmware is loaded by the kernel using hotplug or udev. Firmware download is supported by udev starting with version 066. If an older version of udev is installed, then hotplug is likely responsible for the firmware loading.

If you don't have either of udev or hotplug, please install either of them, preferably using your distribution's facilities (yum, apt-get, urpmi or a similar package manager). Every supported device need just one firmware file, and the driver knows which firmware to load based on the USB ID of the device. But if you don't know which firmware file your device needs, it's a safe bet to install them all.

For the firmware to be found and loaded, it should be copied to a directory where hotplug or udev can find it.

When udev is used, this directory is normally called /lib/firmware. If hotplug is handling the firmware, if would normally look in following directories:

```
/lib/hotplug/firmware
/usr/local/lib/hotplug/firmware
/usr/lib/hotplug/firmware
```

For example, if you determine that the firmware is loaded from /lib/firmware, copy the firmware files there as root:

```
cp *.bin /lib/firmware
```

The firmware download is initiated by the driver after it detects the appropriate hardware. No additional scripts or utilities are needed to load the firmware. See kernel log (using the dmesg command) to make sure that the firmware download has succeeded.

Contact information

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Please don't write any individual developers personally. The driver is developed collectively, and the discussion about the driver should be open for others.

The mailing list for developers of the at 76 usb driver is

at76c503a-develop@lists.berlios.de

The mailing list for users of the at76_usb driver is

at76c503a-user@lists.berlios.de

You may also want to download the latest version of the driver and the firmware and check the included documentation, which may be more current

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