

# Hitachi Content Platform

**Release 7.3.4**

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# Preface

The Appliance Operating System and the **Hitachi Content Platform (HCP)** software incorporate 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 users.

## Product version

This book applies to release 7.3.4 of the Hitachi Content Platform.

## Related documents

The following documents contain additional information about Hitachi Content Platform:

- *Administering HCP* — This book explains how to use an HCP system to monitor and manage a digital object repository. the book describes the capabilities and the hardware and software components of the system. The book presents both the concepts and instructions you need to configure the system, including creating the tenants that administer access to the repository. The book also covers the processes that maintain the integrity and security of the repository contents.
- *Managing a Tenant and Its Namespaces* — This book contains complete information for managing the HCP tenants and namespaces created in an HCP system. The book provides instructions for creating namespaces, setting up user accounts, configuring the protocols that allow access to namespaces, managing search and indexing, and

downloading installation files for HCP Data Migrator. The book also explains how to work with retention classes and the privileged delete functionality.

- *Managing the Default Tenant and Namespace* — This book contains complete information for managing the default tenant and namespace in an HCP system. The book provides instructions for changing tenant and namespace settings, configuring the protocols that allow access to the namespace, managing search and indexing, and downloading the installation files for HCP Data Migrator. The book also explains how to work with retention classes and the privileged delete functionality.
- *Replicating Tenants and Namespaces* — This book covers all aspects of tenant and namespace replication. Replication is the process of keeping selected tenants and namespaces in two or more HCP systems in sync with each other to ensure data availability and enable disaster recovery. The book describes how replication works, contains instructions for working with replication links and erasure coding topologies and explains how to manage and monitor the replication process.
- *HCP Management API Reference* — This book contains the information you need to use the HCP management API. This RESTful HTTP API enables you to create and manage tenants and namespaces programmatically. The book explains how to use the API to access an HCP system, specify resources, and update and retrieve resource properties.
- *Using a Namespace* — This book describes the properties of objects in HCP namespaces. This book provides instructions for using the HTTP, WebDAV, CIFS, and NFS protocols for the purpose of storing, retrieving, and deleting objects, as well as changing object metadata such as retention and shred settings. The book also explains how to manage namespace content and view namespace information in the Namespace Browser.
- *Using the HCP HS3 API* — This book contains the information you need to use the HCP HS3 API. This S3™-compatible, RESTful, HTTP-based API enables you to work with buckets and objects in HCP. The book introduces the HCP concepts you need to understand in order to use HS3 effectively and contains instructions and examples for each of the bucket and object operations you can perform with HS3.



- *Using the HCP HSwift API* — This book contains the information you need to use the HCP HSwift API. This OpenStack Swift-compatible, RESTful, HTTP-based API enables you to work with containers and objects in HCP. The book introduces the HCP concepts you need to understand in order to use HSwift effectively and contains instructions and examples for each of the container and object operations you can perform with HSwift.
- *Using the Default Namespace* — This book describes the file system HCP uses to present the contents of the default namespace. This book provides instructions for using HCP-supported protocols to store, retrieve, and deleting objects, as well as changing object metadata such as retention and shred settings.
- *HCP Metadata Query API Reference* — This book describes the HCP metadata query API. This RESTful HTTP API enables you to query namespaces for objects that satisfy criteria you specify. The book explains how to construct and perform queries and describes query results. It also contains several examples, which you can use as models for your own queries.
- *Searching Namespaces* — This book describes the HCP Search Console (also called the Metadata Query Engine Console). It explains how to use the Console to search namespaces for objects that satisfy criteria you specify. It also explains how to manage and manipulate queries and search results. The book contains many examples, which you can use as models for your own searches.
- *Using HCP Data Migrator* — This book contains the information you need to install and use HCP Data Migrator (HCP-DM), a utility that works with HCP. This utility enables you to copy data between local file systems, namespaces in HCP, and earlier HCAP archives. It also supports bulk delete operations and bulk operations to change object metadata. Additionally, it supports associating custom metadata and ACLs with individual objects. The book describes both the interactive window-based interface and the set of command-line tools included in HCP-DM.
- *Installing an HCP System* — This book provides the information you need to install the software for a new HCP system. It explains what you need to know to successfully configure the system and contains step-by-step instructions for the installation procedure.

- *Deploying an HCP-VM System on ESXi* — This book contains all the information you need to install and configure an HCP-VM system. The book also includes requirements and guidelines for configuring the VMWare® environment in which the system is installed.
- *Deploying an HCP-VM System on KVM* — This book contains all the information you need to install and configure an HCP-VM system. The book also includes requirements and guidelines for configuring the KVM environment in which the system is installed.
- *HCP-DM Third-Party Licenses and Copyrights* — This book contains copyright and license information for third-party software distributed with or embedded in HCP Data Migrator.
- *Installing an HCP RAIN System - Final On-site Setup* — This book contains instructions for deploying an assembled and configured HCP RAIN system at a customer site. It explains how to make the necessary physical connections and reconfigure the system for the customer computing environment. The book also provides instructions for assembling the components of an HCP RAIN system that was ordered without a rack and for configuring Hi-Track Monitor to monitor the nodes in an HCP system.
- *Installing an HCP SAIN System - Final On-site Setup* — This book contains instructions for deploying an assembled and configured single-rack HCP SAIN 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 the nodes in an HCP system.

## Accessing product documentation

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**Thank you!**



# Introduction

The Appliance Operating System is based on the open source operating system, Fedora 18, from the Fedora Project (<http://fedoraproject.org>). It also includes several additional open source software packages.

The HCP software incorporates multiple open source software packages and two proprietary third-party components.

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  
Hitachi Vantara Corporation  
2845 Lafayette Street  
Santa Clara, CA 95050-2627

Hitachi Vantara gratefully acknowledges the contributions of the open source community in the development of the Appliance Operating System and HCP software.



## Unmodified Fedora components

This chapter contains a table of unmodified Fedora packages used in the Appliance 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 Appliance 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 product manager of the issue. For the product manager contact information, ["Chapter 1: Introduction"](#) on page 13.

For a list of the modified Fedora packages used in the HCP Appliance Operating System, [Chapter 3: "Appliance Operating System third-party components"](#).

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| device-<br>mapper-<br>multipath  | 0.4.9   | 51.3.aos7      |  |

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| mysql-libs   | 5.5.31  | 1.fc18         |   |
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| acpid  | 2.0.18  | 3.fc18         |   |
| attr   | 2.4.46  | 7.fc18         |   |
| audit  | 2.2.3   | 2.fc18         |   |
| authconfig   | 6.2.5   | 1.fc18.2       |   |
| bc   | 1.06.95 | 7.fc18         |   |

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| brltty                 | 4.3        | 12.fc18        |           |
| compat-readline5       | 5.2        | 20.fc18        |           |
| dmidecode              | 2.12       | 3.fc18         |           |
| dmraid                 | 1.0.0.rc16 | 18.fc18        |           |
| dmraid-events          | 1.0.0.rc16 | 18.fc18        |           |
| gpm                    | 1.20.6     | 26.fc18        |           |
| gpm-libs               | 1.20.6     | 26.fc18        |           |
| grubby                 | 8.22       | 1.fc18         |           |
| hostname               | 3.11       | 4.fc18         |           |
| hwdata                 | 0.244      | 1.fc18         |           |
| jbigkit                | 2.0        | 7.fc18         |           |
| jbigkit-libs           | 2.0        | 7.fc18         |           |
| kbd                    | 1.15.3     | 7.fc18         |           |
| kbd-misc               | 1.15.3     | 7.fc18         |           |
| kmod                   | 12         | 3.fc18         |           |
| libnetfilter_conntrack | 1.0.3      | 1.fc18         |           |
| libnetfilter_cttimeout | 1.0.0      | 1.fc18         |           |
| libnfnetlink           | 1.0.1      | 1.fc18         |           |
| libreport-filesystem   | 2.1.9      | 1.fc18         |           |

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| ltrace  | 0.7.2   | 1.fc18         |           |
| lzma    | 4.32.7  | 8.fc18         |           |
| make    | 3.82    | 14.fc18        |           |
| mdadm   | 3.2.6   | 21.fc18        |           |

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| pciutils           | 3.1.10   | 2.fc18                      |           |
| pciutils-libs      | 3.1.10   | 2.fc18                      |           |
| pinentry           | 0.8.1    | 8.fc18                      |           |
| pkgconfig          | 0.27     | 1.fc18                      |           |
| plymouth           | 0.8.8    | 5.fc18                      |           |
| plymouth-core-libs | 0.8.8    | 5.fc18                      |           |
| plymouth-scripts   | 0.8.8    | 5.fc18                      |           |
| psmisc             | 22.20    | 1.fc18                      |           |
| rng-tools          | 4        | 2.fc18                      |           |
| rpm                | 4.10.3.1 | 3.fc18                      |           |
| rpm-python         | 4.10.3.1 | 3.fc18                      |           |
| screen             | 4.1.0    | 0.14.20120314git3c2946.fc18 |           |
| sgpio              | 1.2.0.10 | 10.fc18                     |           |
| shared-mime-info   | 1.1      | 1.fc18                      |           |
| slang              | 2.2.4    | 5.fc18                      |           |
| smartmontools      | 6.1      | 1.fc18                      |           |

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| sysstat        | 10.1.2  | 2.fc18         |           |
| sysvinit-tools | 2.88    | 9.dsfc18       |           |
| time           | 1.7     | 42.fc18        |           |
| traceroute     | 2.0.19  | 1.fc18         |           |
| tree           | 1.6.0   | 5.fc18         |           |
| yum            | 3.4.3   | 54.fc18        |           |
| yum-utils      | 1.1.31  | 10.fc18        |           |



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| os-prober  | 1.57    | 2.fc18             |           |
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| cryptsetup-libs  | 1.6.1   | 1.fc18             |           |
| keyutils   | 1.5.5   | 3.fc18             |           |
| keyutils-libs  | 1.5.5   | 3.fc18             |           |
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| iproute  | 3.6.0    | 8.fc18                |  |

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| elfutils-libelf   | 0.155       | 1.fc18              |           |
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| cifs-utils  | 6.1         | 1.fc18              |           |
| crash   | 6.1.4       | 1.fc18              |           |
| which   | 2.20        | 4.fc18              |           |
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| bash  | 4.2.45      | 1.2_poodle_fix.aos7 |           |
| binutils  | 2.23.51.0.1 | 6.fc18              |           |
| coreutils   | 8.17        | 8.fc18              |           |
| cpio  | 2.11        | 12.fc18             |           |
| device-mapper-persistent-data   | 0.1.4       | 2.fc18              |           |
| diffutils   | 3.2         | 12.fc18             |           |
| emacs-filesystem  | 24.2        | 18.fc18             |           |
| emacs-nox   | 24.2        | 18.fc18             |           |



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| findutils   | 4.5.10  | 5.fc18         |           |
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| gnupg2  | 2.0.19  | 7.fc18         |           |
| grep  | 2.14    | 1.fc18         |           |
| grub2   | 2.00    | 15.fc18        |           |
| grub2-tools   | 2.00    | 15.fc18        |           |
| info  | 4.13a   | 18.fc18        |           |
| less  | 444     | 9.fc18         |           |
| libbasicobjects   | 0.1.0   | 12.fc18        |           |
| libpipeline   | 1.2.2   | 2.fc18         |           |
| nano  | 2.3.1   | 4.fc18         |           |
| parted  | 3.1     | 12.fc18        |           |
| patch   | 2.6.1   | 14.fc18        |           |
| readline  | 6.2     | 5.fc18         |           |
| rsync   | 3.0.9   | 5.fc18         |           |
| sed   | 4.2.1   | 10.fc18        |           |
| sssd  | 1.9.5   | 2.fc18         |           |
| tar   | 1.26    | 12.fc18        |           |
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| gettext  | 0.18.1.1 | 17.fc18        |   |
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| libsmbclient   | 4.0.21   | 1.4.aos732     |   |
| libwbclient  | 4.0.21   | 1.4.aos732     |   |
| samba  | 4.0.21   | 1.4.aos732     |   |
| samba-client   | 4.0.21   | 1.4.aos732     |   |
| samba-common   | 4.0.21   | 1.4.aos732     |   |
| samba-libs   | 4.0.21   | 1.4.aos732     |   |



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| <i>GPLv3+ with exceptions</i><br>(see <a href="#">"GNU General Public License, Version 3 (GPLv3)"</a> on page 647) |         |                |           |
| gnupg  | 1.4.13  | 2.fc18         |           |
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| libjpeg-turbo  | 1.2.90  | 1.fc18         |           |

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| ceph-libs  | 0.56.3  | 1.fc18         |   |
| device-<br>mapper-<br>event-libs   | 1.02.77 | 4.fc18         |   |

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| dialog             | 1.1     | 17.20120706.fc18     |           |
| gamin              | 0.1.10  | 13.fc18              |           |
| libcroco           | 0.6.8   | 1.fc18               |           |
| libnl              | 1.1     | 16.fc18              |           |
| libseccomp         | 1.0.1   | 0.fc18               |           |
| lockdev            | 1.0.4   | 0.5.20111007git.fc18 |           |

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| SDL   | 1.2.15  | 4.fc18         |  |
| alsa-lib  | 1.0.26  | 2.fc18         |  |
| atk   | 2.6.0   | 1.fc18         |  |
| audit-libs  | 2.2.3   | 2.fc18         |  |
| avahi-libs  | 0.6.31  | 6.fc18         |  |
| brlapi  | 0.5.6   | 12.fc18        |  |

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| check          | 0.9.9   | 1.fc18         |           |
| cracklib       | 2.8.22  | 2.fc18         |           |
| cracklib-dicts | 2.8.22  | 2.fc18         |           |
| fuse-libs      | 2.9.2   | 1.fc18         |           |
| gdk-pixbuf2    | 2.26.5  | 1.fc18         |           |
| glib2          | 2.34.2  | 2.fc18         |           |
| gpgme          | 1.3.2   | 1.fc18         |           |
| graphite2      | 1.1.1   | 4.fc18         |           |
| gtk2           | 2.24.19 | 1.fc18         |           |
| kmod-libs      | 12      | 3.fc18         |           |
| libacl         | 2.2.51  | 7.fc18         |           |
| libaio         | 0.3.109 | 6.fc18         |           |
| libasyncns     | 0.8     | 4.fc18         |           |
| libattr        | 2.4.46  | 7.fc18         |           |
| libblkid       | 2.22.2  | 7.fc18         |           |
| libcap         | 2.22    | 3.fc18         |           |
| libcap-ng      | 0.7.3   | 1.fc18         |           |
| libesmtp       | 1.0.6   | 4.1.aos7       |           |
| libestr        | 0.1.5   | 1.fc18         |           |
| libgcrypt      | 1.5.3   | 1.fc18         |           |
| libgpg-error   | 1.10    | 3.fc18         |           |
| liblognorm     | 0.3.5   | 1.fc18         |           |
| libmicrohttpd  | 0.9.22  | 1.fc18         |           |
| libmnl         | 1.0.3   | 4.fc18         |           |
| libmount       | 2.22.2  | 7.fc18         |           |
| libsemanage    | 2.1.9   | 1.fc18         |           |
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| libusbx         | 1.0.14  | 1.fc18         |           |
| libuser         | 0.58    | 3.fc18         |           |
| libutempter     | 1.1.6   | 1.fc18         |           |
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| lzma-libs       | 4.32.7  | 8.fc18         |           |

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| pth               | 2.0.7   | 17.fc18        |           |
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| pygpgme           | 0.3     | 5.fc18         |           |
| python-kitchen    | 1.1.1   | 2.fc18         |           |
| python-urlgrabber | 3.9.1   | 24.fc18        |           |
| pyxattr           | 0.5.1   | 2.fc18         |           |
| qrencode-libs     | 3.4.1   | 1.fc18         |           |
| spice-server      | 0.12.2  | 3.fc18         |           |
| systemd-sysv      | 201     | 2.fc18.9       |           |
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| usbredir          | 0.6     | 1.fc18         |           |

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| gmp   | 5.0.5   | 3.fc18         |           |
| libcollection   | 0.6.2   | 12.fc18        |           |
| libdhash  | 0.4.3   | 12.fc18        |           |
| libini_config   | 0.7.0   | 12.fc18        |           |
| libipa_hbac   | 1.9.5   | 2.fc18         |           |
| libldb  | 1.1.16  | 1.fc18         |           |
| libpath_utils   | 0.2.1   | 12.fc18        |           |
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| libsss_idmap  | 1.9.5   | 2.fc18         |           |

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| libtevent     | 0.9.18  | 1.fc18         |           |
| libunistring  | 0.9.3   | 6.fc18         |           |
| pyliblzm3     | 0.5.3   | 7.fc18         |           |
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| nss-sysinit   | 3.14.3  | 1.fc18         |           |
| nss-tools   | 3.14.3  | 1.fc18         |           |
| nss-util  | 3.14.3  | 1.fc18         |           |
| <i>OpenLDAP</i><br>(see <a href="#">"OpenLDAP License"</a> on page 749)           |         |                |           |
| openldap  | 2.4.34  | 1.fc18         |           |
| openldap-clients  | 2.4.34  | 1.fc18         |           |
| <i>OpenSSL</i><br>(see <a href="#">"OpenSSL and SSLeay Licenses"</a> on page 750) |         |                |           |
| openssl   | 1.0.1e  | 37.4.aos732    |           |
| openssl-lib   | 1.0.1e  | 37.4.aos732    |           |
| <i>PostgreSQL</i><br>(see <a href="#">"PostgreSQL License"</a> on page 771)       |         |                |           |
| postgresql  | 9.2.4   | 1.1.aos6       |           |

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| postgresql-python   | 9.2.4   | 1.1.aos6       |           |
| postgresql-server   | 9.2.4   | 1.1.aos6       |           |
| postgresql-upgrade  | 9.2.4   | 1.1.aos6       |           |
| <i>PostgreSQL or Python</i><br>(see <a href="#">"PostgreSQL License"</a> on page 771, see <a href="#">"Python License"</a> on page 774) |         |                |           |
| PyGreSQL  | 4.0     | 5.fc18         |           |



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| ca-certificates   | 2012.87 | 1.fc18             |  |
| filesystem  | 3.1     | 2.fc18             |  |
| fontpackages-filesystem   | 1.44    | 5.fc18             |  |
| libselinux  | 2.1.12  | 7.3.fc18           |  |
| setup   | 2.8.57  | 1.fc18             |  |
| sqlite  | 3.7.13  | 2.fc18             |  |
| tzdata  | 2014j   | 1.fc18             |  |
| tzdata-java   | 2014j   | 1.fc18             |  |
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| crontabs  | 1.11    | 4.20101115git.fc18 |  |
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| mailcap   | 2.1.40  | 1.fc18             | Copyright (C) 1991 Bell Communications Research Inc (Bellcore) |
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| mx  | 3.2.3   | 3.fc18             |  |
| python  | 2.7.3   | 13.fc18            |  |
| python-libs   | 2.7.3   | 13.fc18            |  |
| python3   | 3.3.0   | 1.fc18             |  |
| python3-libs  | 3.3.0   | 1.fc18             |  |
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| ql2400-firmware   | 5.08.00 | 1.fc18             |  |

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| ql2500-firmware | 5.08.00 | 1.fc18         |           |

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| vim-common   | 7.3.944 | 1.fc18         |  |
| vim-enhanced   | 7.3.944 | 1.fc18         |  |
| vim-filesystem   | 7.3.944 | 1.fc18         |  |
| vim-minimal  | 7.3.944 | 1.fc18         |  |
| <i>libtiff</i><br>(see <a href="#">"Libtiff License"</a> on page 708)  |         |                |  |
| libtiff  | 4.0.3   | 2.fc18         |  |

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# Appliance Operating System third-party components

This chapter identifies the modified Fedora packages and additional third-party software embedded in the Appliance 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 Appliance Operating System, see [Chapter 2: "Unmodified Fedora components"](#)

For the text of the licenses identified in this section, see [Chapter 5: "Licenses for third-party components"](#).

## Modified Fedora packages

This section presents the modified Fedora packages embedded in the Appliance Operating System.

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### Third-party package

bind  
bind-libs  
bind-libs-lite  
bind-license  
bind-utils  
version 9.9.2-10

### Source

<http://www.isc.org/products/BIND>

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### **Third-party package**

BusyBox

Version 1.19.4

**Source**

<http://www.busybox.net>

**License text**

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---

**Third-party package**

device-mapper-multipath, device-mapper-multipath-libs, kpartx  
Version 0.4.9-51.3

**Source**

<http://christophe.varoqui.free.fr>

**License text**

See ["GNU General Public License, Version 2 \(GPLv2\)"](#).



**Note:** Hitachi Vantara has modified device-mapper-multipath, kpartx for the Appliance Operating System. The modified source code is available on request.

---

**Third-party package**

Dracut  
Dracut-network  
Version 024-25

**Source**

<http://dracut.wiki.kernel.org>

**License text**

See ["GNU General Public License, Version 2+ \(GPLv2+\)"](#) and ["GNU Lesser General Public License, Version 2.1 \(LGPLv2.1\)"](#).



**Note:** Hitachi Vantara has modified Dracut for the Appliance Operating System. The modified source code is available on request.

---

**Third-party package**

e2fsprogs

Version 1.42.7-2

**Source**

<http://e2fsprogs.sourceforge.net/>

**License text**

See ["GNU Library General Public License, Version 2 \(LGPLv2\)"](#).

---

**Third-party package**

e2fsprogs-libs

Version 1.42.7-2

**Source**

<http://e2fsprogs.sourceforge.net/>

**License text**

See ["GNU Library General Public License, Version 2 \(LGPLv2\)"](#) and ["GNU General Public License, Version 2 \(GPLv2\)"](#).

---

**Third-party package**

Filesystem in Userspace (FUSE)

Version 2.8.5

**Source**

<http://fuse.sourceforge.net>

**License text**

See ["GNU Library General Public License, Version 2 \(LGPLv2\)"](#) and ["GNU General Public License, Version 2 \(GPLv2\)"](#).



**Note:** Hitachi Vantara has modified FUSE for the Appliance Operating System. The modified source code is available on request.

---

---

**Third-party package**

glibc, glibc-common, glibc-devel, glibc-headers, glibc-static, glibc-utils  
Version 2.16-34.2

**Source**

<http://www.gnu.org/software/glibc/>

**License text**

See "[GNU General Public License, Version 2+ \(GPLv2+\)](#)" on page 646  
"[GNU Lesser General Public License, Version 2+ \(LGPLv2+\)](#)" on  
page 662

---

**Third-party package**

grub2  
grub2-tools  
Version 2.00-15.1

**Source**

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

**License text**

See "[GNU General Public License, Version 3 \(GPLv3\)](#)".



**Note:** Hitachi Vantara has modified grub2 and grub2-tools for the Appliance Operating System. The modified source code is available on request.

---

**Third-party package**

initscripts  
Version 9.42.2-3

**Source**

<http://fedorahosted.org/releases/i/n/initscripts>

**License text**

See "[GNU General Public License, Version 2 \(GPLv2\)](#)" and "[GNU General Public License, Version 2+ \(GPLv2+\)](#)".



**Note:** Hitachi Vantara has modified initscripts for the Appliance Operating System. The modified source code is available on request.

---

**Third-party package**

ipmitool

Version 1.8.12-9

**Source**

<http://ipmitool.sourceforge.net>

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See "[BSD License](#)".



**Note:** Hitachi Vantara has modified ipmitool for the Appliance Operating System. The modified source code is available on request.

---

---

**Third-party package**

Kernel

Version 10.95-100

**Source**

<https://git.kernel.org/>

**License text**

["GNU General Public License, Version 2 \(GPLv2\)"](#) on page 639

---

**Third-party package**

krb5-libs  
 krb5-workstation  
 Version 1.10.3-16

**Source**

<http://web.mit.edu/kerberos/www>

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### License text

See ["MIT License"](#).

---

### Third-party package

libesntp  
Version 1.0.6-4

### Source

<http://www.stafford.uklinux.net/libesntp>

### License text

See ["GNU Lesser General Public License, Version 2+ \(LGPLv2+\)"](#).

---

### Third-party package

libtirpc  
Version 0.2.2-44

### Source

<http://nfsv4.bullopenSource.org>

### Proprietary notice

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### License text

See ["BSD License"](#) and ["Sun Industry Standards Source License"](#).



**Note:** Hitachi Vantara has modified libtirpc for the Appliance Operating System. The modified source code is available on request.

---

---

### Third-party package

nfs-utils  
version 1.2.7-7

### Source

<http://sourceforge.net/projects/nfs/>

### Proprietary notice

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**Note:** Hitachi Vantara has modified nfs-utils for the Appliance Operating System. The modified source code is available on request.

---

---

**Third-party package**

openssl  
openssl-libs  
version 1.0.1e-37

**Source**

<http://www.openssl.org>

**License text**

See ["OpenSSL and SSLeay Licenses"](#).

---

**Third-party package**

postgresql  
postgresql-libs  
postgresql-plpython  
postgresql-server  
postgresql-upgrade  
Version 9.2.4-1

**Source**

<http://www.postgresql.org>

**License text**

See ["PostgreSQL License"](#).

---

**Third-party package**

Samba  
Samba-client  
Samba-common  
Samba-libs  
Samba-winbind  
Samba-winbind-clients  
Version 4.0.21-1

**Source**

<http://www.samba.org>

**License text**

See ["GNU General Public License, Version 3 \(GPLv3\)"](#) and ["GNU Lesser General Public License, Version 3 \(LGPLv3\)"](#).



**Note:** Hitachi Vantara has modified Samba for the Appliance Operating System. The modified source code is available on request.

---

## Additional third-party packages

This section presents the non-Fedora third-party packages embedded in the Appliance Operating System.

---

### Third-party package

libgfshare

Version 1.0.2-3

### Source

<http://www.digital-scurf.org/software/libgfshare>

### Proprietary notice

Copyright Daniel Silverstone 2006

### License text

See "[gfshare License](#)".



**Note:** Source code for libgfshare is available on request.

---



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### Third-party package

Periodic

Version 0.7-4

### Source

<http://www.jabberwocky.com/software/periodic>

### License text

See "[GNU Lesser General Public License, Version 2.1 \(LGPLv2.1\)](#)".



**Note:** Source code for Periodic is available on request.

---



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### Third-party package

stdio-shrink

Version 0.7

Additional third-party packages

**Source**

<http://www.jabberwocky.com/software/stdio-shrink>

**License text**

See "[GNU Lesser General Public License, Version 2.1 \(LGPLv2.1\)](#)".

## HCP software third-party components

This chapter identifies the third-party software embedded in or distributed with the HCP software. 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.

For the text of the licenses identified in this section, see [Chapter 5: "Licenses for third-party components"](#).

---

**Third-party package**

Airspeed  
Version r56

**Source**

<https://github.com/purcell/airspeed>

**Proprietary notice**

No copyright notice was found in the code or LICENSE file.

**License text**

See "[BSD License \(Simplified\)](#)".

---

**Third-party package**

Apache Commons BeanUtils  
Version 1.7.0

**Source**

<http://commons.apache.org/beanutils>

**License text**

See "[Apache License, version 2.0](#)".

---

**Third-party package**

Apache Commons Chain

Version 1.1

**Source**

<http://commons.apache.org/proper/commons-chain/>

**License text**

See "[Apache License, version 2.0](#)".

---

**Third-party package**

Apache Commons CLI

Version 1.2

**Source**

<http://commons.apache.org/cli>



**License text**

See ["Apache License, version 2.0"](#).

---

**Third-party package**

Apache Commons Codec

Version 1.6

**Source**

<http://commons.apache.org/codec>

**License text**

See ["Apache License, version 2.0"](#).

---

**Third-party package**

Apache Commons Collections

Version 3.2.1

**Source**

<http://commons.apache.org/collections>

**License text**

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---

**Third-party package**

Apache Commons Compress

Version 1.5

**Source**

<http://commons.apache.org/compress>

**License text**

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---

**Third-party package**

Apache Commons CSV

Version 1.0-snapshot-r966014

**Source**

<https://commons.apache.org/proper/commons-csv/>

**License text**

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---

**Third-party package**

Apache Commons Digester  
Version 1.8

**Source**

<https://commons.apache.org/proper/commons-digester/>

**License text**

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---

**Third-party package**

Apache Commons Fileupload  
  
Version 1.3.1

**Source**

<http://commons.apache.org/fileupload>

**License text**

See ["Apache License, version 2.0"](#).

---

**Third-party package**

Apache Commons HttpClient  
  
Version 3.0.1

**Source**

<http://hc.apache.org/httpclient-3.x/>

**License text**

See ["Apache License, version 2.0"](#).

---

**Third-party package**

Apache Commons HttpComponents  
Version 4.2

**Source**

<http://hc.apache.org/>

**License text**

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---

**Third-party package**

Apache Commons IO  
Version 2.4

**Source**

<http://commons.apache.org/io>

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---

**Third-party package**

Apache Commons JXPath  
Version 1.1

**Source**

<http://commons.apache.org/jxpath>

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---

**Third-party package**

Apache Commons Lang  
Version 2.6 and 3.1

**Source**

<http://commons.apache.org/lang>

**License text**

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---

**Third-party package**

Apache Commons Logging  
Version 1.1.1

**Source**

<http://commons.apache.org/proper/commons-logging/>

**License text**

See ["Apache License, version 2.0"](#).

---

**Third-party package**

Apache Commons Net  
Version 3.1

**Source**

[http://commons.apache.org/net/download\\_net.cgi](http://commons.apache.org/net/download_net.cgi)

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**Third-party package**

Apache Commons Validator  
Version 1.3.1

**Source**

<https://commons.apache.org/proper/commons-validator/>

**License text**

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---

**Third-party package**

Apache Derby  
Version 10.8.2.2

**Source**

<http://db.apache.org/derby/>

**License text**

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---

**Third-party package**

Apache Directory Server  
Version 1.5.7

**Source**

<http://directory.apache.org/apacheds/news.html>

**License text**

See "[Apache License, version 2.0](#)".



---

**Note:** Hitachi Vantara has modified Apache Directory Server for the HCP software. The modified source code is available on request.

---

---

### **Third-party package**

Apache Directory Shared  
Version 0.9.19

### **Source**

<http://directory.apache.org/apacheds/news.html>

### **License text**

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---

### **Third-party package**

Apache Geronimo  
Version 1.0.0

### **Source**

<https://geronimo.apache.org/>

### **License text**

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---

### **Third-party package**

Apache Jakarta Commons HttpClient  
Version 3.0.1

### **Source**

<http://hc.apache.org/httpclient-3.x>

### **License text**

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---

### **Third-party package**

Apache JClouds  
Version 1.8

### **Source**

<http://www.jclouds.apache.org/>

**License text**

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---

**Third-party package**

Apache Joda-Time  
Version 2.2

**Source**

<http://www.joda.org/joda-time/>

**License text**

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---

**Third-party package**

Apache Lucene  
Version 4.0 (not released)  
Current Version: 4.6.1  
ECCN: 5D002

**Source**

<http://lucene.apache.org/>

**License text**

See ["Apache License, version 2.0"](#).



**Note:** Hitachi Vantara has modified Apache Lucene for the HCP software. The modified source code is available on request.

---

**Third-party package**

Apache Solr  
Version 4.0

**Source**

<http://lucene.apache.org/solr/>

**License text**

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---

**Third-party package**

Apache Struts 1  
Version 1.0.2

**Source**

<http://struts.apache.org/>

**License text**

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---

**Third-party package**

Apache Struts 2

Version 2.3.20

**Source**

<http://struts.apache.org/>

**License text**

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---

**Third-party package**

Apache Velocity Engine

Version 1.6.2

**Source**

<http://velocity.apache.org/engine/>

**License text**

See "[Apache License, version 2.0](#)".

---

**Third-party package**

ASM

Version 3.1

**Source**

<http://asm.ow2.org/>

**License text**

See "[ASM](#)" on page 522.

---

**Third-party package**

Atinject

Version 1

**Source**

<https://code.google.com/p/atinject/>

**License text**

See ["Apache License, version 2.0"](#).

---

**Third-party package**

AWS SDK for Java

Version 1.9.25

**Source**

<http://aws.amazon.com/sdkforjava/>

**License text**

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---

**Third-party package**

Beautiful Soup

Version 3.0.3

**Source**

<http://www.crummy.com/software/BeautifulSoup>

**Proprietary notice**

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**License text**

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---

**Third-party package**

Bouncy Castle Crypto APIs

Version 1.47

**Source**

<http://www.bouncycastle.org>

**License text**

See ["MIT License"](#)

---

**Third-party package**

Cheetah

Version 2.0.1

**Source**

<http://www.cheetahtemplate.org>



**License text**

See ["MIT License"](#).

---

**Third-party package**

dateutil

Version 1.5

**Source**

<http://labix.org/python-dateutil>

**Proprietary notice**

Copyright (C) 2003-2004 Hye-Shik Chang <perky@FreeBSD.org>

Copyright (c) 2003-2011 - Gustavo Niemeyer

**License text**

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**Third-party package**

davclient

Version r5

**Source**

<http://chandlerproject.org/Projects/Davclient>

**Proprietary notice**

Copyright (C) 2003-2004 Hye-Shik Chang <perky@FreeBSD.org>

**License text**

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**Third-party package**

EasyStream

Version 1.2.14

**Source**

<http://code.google.com/p/io-tools/>

**License text**

See ["BSD 3-Clause License"](#) on page 525

---

**Third-party package**

ElementTree  
Version 1.2.6

**Source**

<http://effbot.org/zone/element-index.htm>

**Proprietary notice**

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**License text**

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**Third-party package**

Elvis  
Version 1.0

**Source**

<http://geophile.com/geophile/>



**Note:** The source code for Elvis is unlicensed and is considered to be in the public domain.

---

**Third-party package**

Entypo pictograms  
  
Version 2.0

**Source**

<http://www.entypo.com/>

**License text**

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**Note:** Hitachi Vantara has modified Entypo pictograms for the HCP software. The modified source code is available on request.

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**Third-party package**

Flot

Version 0.8.2

**Source**

<http://www.flotcharts.org>

**License text**

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**Third-party package**

Flot Pie Chart

Version 0.8.3

**Source**

<http://www.flotcharts.org>

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Flot Time

Version 0.8.2

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**Third-party package**

Flot Tooltip

Version 0.8.2

**Source**

<http://www.flotcharts.org>

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**Third-party package**

Freemarker

Version 1.0.16

**Source**

<http://freemarker.org/freemarkerdownload.html>

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**Third-party package**

Geronimo

Version 1.0.0

**Source**

<http://www.eclipse.org/orbit/>

**License text**

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**Third-party package**

GlassFish

Using Version 2.1

Current Version is 4.0

**Source**

Version 2.1 source: <http://www.eclipse.org/orbit/>

Version 4.0 source: <https://glassfish.java.net/>

**License text**

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**Third-party package**

GNU Crypto

Using Version 2.0.1

**Source**

<http://www.gnu.org/software/gnu-crypto/>

**License text**

See ["GNU General Public License, Version 1+ \(GPL+\)"](#) on page 638 with the public library exception. For more information on the public library exception, see [Chapter 5: "License exception"](#) on page 802



**Note:** Source code for GNU Crypto is available on request.

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**Third-party package**

Google API Java Client  
Version 1.17.0

**Source**

<https://code.google.com/p/google-api-java-client/>

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**Third-party package**

Google Gson  
Version 2.2.2

**Source**

<https://code.google.com/p/google-gson/>

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**Third-party package**

Google Guice  
Version 3.0

**Source**

<https://code.google.com/p/google-guice/>

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goopy  
Version 0.1

**Source**

<http://goog-goopy.sourceforge.net>

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**Third-party package**

Guava  
Version 18.0-1

**Source**

<http://code.google.com/p/guava-libraries/>

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**Third-party package**

Hitachi Driver for HiFive Fibre Channel controller

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**Third-party package**

Hitachi Storage Navigator Library SN2API

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io-tools  
Version 2.1.14

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<http://code.google.com/p/io-tools/>

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**Third-party package**

Jackson

Version 1.9.10

**Source**

<https://github.com/FasterXML/jackson>

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**Third-party package**

Javassist

Version 3.11.0.ga

**Source**

<http://www.csg.is.titech.ac.jp/~chiba/javassist/>

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**Third-party package**

JavaMail

Version 1.4.4

**Source**

<http://www.oracle.com/technetwork/java/javamail>

**License text**

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**Third-party package**

jcmdline

Version 1.0.3

**Source**

<http://jcmdline.sourceforge.net/>

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**Note:** Source code for jcmdline is available on request.

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### **Third-party package**

Jcommon  
Version 1.0.16

### **Source**

<http://www.jfree.org/jcommon/>

### **License text**

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**Note:** Source code for jcommon is available on request.

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### **Third-party package**

JDOM  
Version 1.0

### **Source**

<http://www.jdom.org>

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### **Third-party package**

Jersey  
Version 1.1.5

### **Source**

<https://jersey.java.net/>

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**Third-party package**

Jetty  
Version 7.6.0

**Source**

<http://eclipse.org/jetty/>

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**Third-party package**

JFreeChart  
Version 1.0.13

**Source**

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**Third-party package**

jQuery  
Version 1.11.2

**Source**

<http://www.jquery.com>

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**Third-party package**

jQuery File Download  
Version 1.4.3

**Source**

<http://johnculviner.com/category/jquery-file-download/>

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**Third-party package**

jQuery Form  
Version 2.95

**Source**

<http://malsup.com/jquery/form>

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**Third-party package**

jQuery hoverIntent  
Version 2.95

**Source**

<http://cherne.net/brian/resources/jquery.hoverIntent.html>

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**Third-party package**

jQuery Knob  
Version 1.2.0

**Source**

<http://www.anthonyterrien.com/knob/>

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**Third-party package**

jQuery prettyCheckboxes  
Version 1.1

**Source**

<http://www.no-margin-for-errors.com/projects/prettyCheckboxes>

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**Note:** Hitachi Vantara has modified jQuery prettyCheckboxes for the HCP software. The modified source code is available on request.

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**Third-party package**

jQuery Superfish  
Version 1.4.8

**Source**

[http://users.tpg.com.au/j\\_birch/plugins/superfish](http://users.tpg.com.au/j_birch/plugins/superfish)

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**Third-party package**

jQuery tablesorter  
Version 2.0.3

**Source**

<http://tablesorter.com>

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**Third-party package**

jQuery timers  
Version 1.2

**Source**

<https://github.com/patryk/jquery.timers>

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jQuery UI  
Version 1.10.3

**Source**

<http://www.jqueryui.com>

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**Third-party package**

jquery-week-calendar  
Version 2.0-dev

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<http://github.com/robmonie/jquery-week-calendar>

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**Third-party package**

JRadius

Version 0.37

**Source**

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**Third-party package**

JSP 2.1

Version 3.1.1

**Source**

<https://jsp.java.net/>

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JSP API 2.1

Version 2.1.v20091210

**Source**

<https://jsp.java.net/>

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**Third-party package**

JSR 311  
Version 1.1

**Source**

<https://jsr311.java.net/>

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**Third-party package**

libesmtp  
Version 1.0.6-4

**Source**

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**Third-party package**

libidn  
Version 1.14

**Source**

<http://www.gnu.org/software/libidn>

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libtirpc  
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### **Source**

<http://sourceforge.net/projects/libtirpc/>

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LSI MegaCLI

**Source**

<http://www.lsi.com>

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**Third-party package**

mechanize  
Version 0.1.8b



**Source**

<http://wwwsearch.sourceforge.net/mechanize>

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nfs-utils  
Version 1.2.3-6

**Source**

<http://sourceforge.net/projects/nfs/>

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OGNL

Version 3.0

**Source**

<https://commons.apache.org/proper/commons-ognl/>

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**Third-party package**

Osh

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<http://geophile.com/osh>

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**Third-party package**

path

Version 2.2

**Source**

<https://pypi.python.org/pypi/path.py>



**Note:** For version 2.2 of path, the source code is unlicensed and is considered to be in the public domain.

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pg8000

Version 1.02

**Source**

<http://pybrary.net/pg8000>

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PostgreSQL JDBC driver  
Version 9.3-1102.jdbc41

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Project JAXB  
Version 2.1 and 2.1.11

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pynetlinux  
Version 1.0.0

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pyparsing

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**Third-party package**

pyprocps

Version 0.01

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pytz

Version 2013b

**Source**

<http://pytz.sourceforge.net/>

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Remote Tea  
Version 1.0.3

**Source**

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Rocoto  
Version 6.2

**Source**

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**Third-party package**

ROME  
Version 0.8 (beta)

**Source**

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**Third-party package**

slf4j  
Version 1.6.1

**Source**

<http://www.slf4j.org>

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**Third-party package**

Spring Framework  
Version 2.1-m2

**Source**

<http://projects.spring.io/spring-framework/>

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**Third-party package**

threadpool  
Version 1.2.2

**Source**

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threadpool2  
Version 2

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**Third-party package**

thttpd

Version 2.25b

**Source**

<http://acme.com/software/thttpd>

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**Source**

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**Third-party package**

tzlocal

Version 0.3

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**Third-party package**

Windows Azure SDK for Java

Version 1.2.0.2



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**Third-party package**

Woodstox Parser

Version 3.2.1

**Source**

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**Third-party package**

Xwork

Version 3.2.1

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Python 2.6.2 License

### A. HISTORY OF THE SOFTWARE

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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, a non-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.

| Releases       | Derived from | Year      | Owner      | GPL-compatible |
|----------------|--------------|-----------|------------|----------------|
| 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            |
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| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes            |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes            |
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| 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        | yes            |

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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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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