



Call Management System (CMS)

R18.0.1

Release Notes

Issue 1.8

September 11, 2017

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1. Purpose

The release notes provide information about the GA version of the Call Management System (CMS) R18 software. The release notes include last minute information that is not incorporated into the standard documentation as well as a very high level of the release content.

For details about the features included in CMS R18 please see the product documentation posted at <http://support.avaya.com>.

The following table describes the release details:

Product	Version	Required Patch or PSN
Call Management System R18 18.0.1	700513155 - CMS Server – r18Ska.p (for Solaris SPARC platforms) 700513154 - CMS Server – r18Xka.p (for Solaris x86 platforms) 700513153 - CMS Server – r18Lka.p (for Linux platforms) 700513156 - additionally required for Linux Platforms	CMS server patch required. See Appendix A for details.
	CMS Supervisor Web – cmsweb18ka.p (for Solaris) CMS Supervisor Web – cmsweb18ka.p (for Linux)	None
	CMS Supervisor PC Client– R18 MA.36	None

2. Document Change History

Issue Number	Date	Comment
1.0	2 October 2015	Initial Release of R18.0.0.0
1.1	13 October 2015	Added information about minimum 10 second refresh rate for R18 Integrated reports. Provided additional information on Designer report issues in section 5.1
1.2	14 March 2016	Added information on 18.0.0.1 Service Pack- Bug fix release
1.3	11 July 2016	Add information on 18.0.0.2 Service Pack
1.4	16 January 2017	Remove mention of new LAN backup version support. Newer LAN backup software support has been delayed to the 18.0.1 Feature Pack.
1.5	30 January 2017	Updated section 1 to note the latest supported Supervisor PC client is version MA.27
1.6	12 June 2017	Updated for R18.0.1
1.7	15 June 2017	Updated to note new CMS Supervisor PC client availability to fix problems described in PSN004822u.
1.8	11 September 2017	Updated notes to reflect changes delivered in CMS Supervisor PC client version MA41.

3. CMS R18 Functionality

3.1. *CMS R18 Provides support for Prior CMS Platforms & Configurations.*

The CMS R18 release delivers the following features:

- Support upgrades to the Oracle T4 and Oracle x4270 as well as upgrades to Dell 620 and Dell 720 platforms.
- Support for new sales on the Dell R220, Dell R630, Dell R730, and HPE DL380 G9 platforms.
 - Beginning with R18.0.0.2 the HP DL20 will be supported for new sales
- Continued support for virtualized deployment on VMWare, this includes new sales and upgrades to existing VMWare deployments.
- All other previously sold Oracle servers not mentioned above are not supported for upgrade.
- New platforms will be sold headless (no Video, Keyboard, Mouse included with platform). Linux moves to an ASCII-only console.

3.2. *Tenant Data Access Controls*

Tenant Data Access extends the current CMS user data access management features.

- Allowing service providers to partition an ACD to be used by multiple tenants/customers
- Allowing business units sharing the same ACD to manage and have access to their own data.
- Updated Permission checking

3.3. *Time Zone Data archiving enhancements*

New time zone data archiving extends the current CMS time zone archiving and reporting capabilities.

- Allows additional aggregation of the interval data based on the time zone of the associated tenant.
- Allows one additional time zone aggregation of the interval data for each ACD

3.4. *Third Party Software refresh*

The CMS R18 release includes Informix version 12 along with data compression.

Java is upgraded to version 8 and Tomcat is version 10.

Linux deployments are version 6.6.

Solaris deployments continue to be Solaris 10

3.5. *Web Client Improvements*

CMS Web is updated and enhanced to provide the following operations

- Support for Integrated reports

- Support for limited administration. CMS Web will allow for agent skill changes.
- Update the look and feel based on usability studies.

3.6. CM 7 support

The following features are available only with CMS integration with CM 7

- Support for the new Attribute data field available on the Agent form in CM 7
- Support for 24,000 measured trunks
- Support for 360,000 agent skill pairs
- Support for 2000 location IDs

3.7. CMS R18 Resolved Issues and Other Improvements

Beginning with CMS R18, capacities information can now be found in the CMS Overview and Specifications document posted on support.avaya.com. The CMS Capacities document is no longer available as a separate document.

The CMS R18 release includes the following fixes:

- Move user passwords over during CUE or Platform Upgrade processes from existing CMS systems.
- Update Free Space Allocation screen to account for data compression with Informix 12
- Improve Supervisor Web to properly check for all expired user passwords.
- Fix issues with grid rotation and columnar tables in Supervisor Web client.
- Add search to Supervisor Web client
- Maintenance backups to NFS will now send an error to elog when device is not available.

3.8. Integrated Reports changes

Beginning with CMS R18, Integrated reports will query the historical database more frequently in order to provide more accurate data to the user.

As a result of this change, the minimum refresh rate for Integrated reports will be 10 seconds.

4. CMS R18.0.0.1 Functionality

4.0. New Functionality in 18.0.0.1

The Mobile App is available on 18.0.0.1

4.1. Bugs fixed in 18.0.0.1

The following CMS Server fixes have been added to CMS R18.0.0.1

- Corrected VDN & Vector Interval Call Data Overruns
- Incorrect data formatting on reports due to resizing changes
- Correction reverts the password complexity rules back the RHEL defaults
- Added support PAM authentication mechanism to authenticate the user

- Fixed memory leak in query log
- Fixed wrong value for start time for the first interval after a day boundary with integrated reports
- Fixed Tomcat deadlock Issue
- Fixed Group by functionality for Custom interval report with no default TZ defined
- Updated Database upgrade script to be re-executable
- Fixed Process Dying during a migration
- Corrected Issues with TZ reporting on Multi Table Join
- Corrections to Agent Trace with SLM implemented on the CM
- An agents hangs up first in a call that came to its reserve skill and it's not being counted as agent released
- Corrected CMS handling of ACDTIME with a "reverse" conference
- Agent Released was not set correctly with a SIP refer/replace call scenario
- Corrected OCW Information in Real Time Report
- Fixed issues seen If a call was queued to more than one skill and it was path replace transferred to a call on an unmeasured trunk
- Netbackup updated to use straight file list of the file systems to be backed up
- Introduced two more alarms for elog process
- Netconfig Enhanced to handle NICs on different subnets
- When configuring more NICs, netconfig now adds to the /etc/Hosts

The following CMS Supervisor Web fixes have been added to CMS R18.0.0.1 :

- Reports updated to support multiple word fonts, single quote, keywords in quotes
- Corrected Incorrect parsing of report definitions for integrated reports
- Updated Client to display database error messages when they occur
- Enhanced Error Handling
- Updated the minimum refresh for web integrated reports to 10 seconds
- Added robustness fix for Designer Integrated reports for Vector, Skill and VDN
- Updated logging to ensure Passwords were not logged in plain text
- Updated web client custom report to allow the selection of any Aux reason code synonyms and provide a menu for browsing the administered synonyms
- Corrected Formatting on some integer fields that are stored as time/duration fields

The following CMS Supervisor PC fixes have been added to CMS R18.0.0.1 :

- Updated Supervisor to correctly enforce private report permissions
- SSH login process fixed to correctly clean up environment
- Updated the Skills column of the change agent skills dialog to be wide enough to show the full skill name
- Client updated to support response the Linux systems returns for Password Already used
- When TE opens existing profile for telnet connection it now retains the configured port
- Exception Admin forms updated to show "Time Limit" translation correctly
- TE install updated to conclude with a "Finish" dialog

- Report inputs (e.g. Historical Trunk Daily) updated to support both the older and newer format of trunk id's
 - Updated Help to display for Threshold Settings
-

5. CMS R18.0.0.2 Functionality

5.1 New Functionality in 18.0.0.2

- Support for the HP DL20 G9 server for all new orders.

5.2 Bugs fixed in 18.0.0.2

The following **CMS Server** fixes have been added to CMS R18.0.0.2:

- Cannot create a new custom report by copying an existing Agent Group report.
- Intermittent login failures with web client interface.
- In many cases, existing Designer Reports were not running properly with R18 in either the Web Client or Supervisor PC client, or both. Improvements have been included in 18.0.0.2 to eliminate these issues. Examples of specifically reported issues that have been resolved are:
 - Interval historical report is empty or blank when date field and VDN name contain the same word.
 - Designer report failed to execute when report input field contained both a comma and apostrophe
 - Some Designer reports failing to execute where report queries are complex and/or report definition had manual edits to the database queries.

The following **CMS Supervisor Web** fixes have been added to CMS R18.0.0.2 :

- When Tenant Partitioning is installed, normal web client users were blocked from executing some Designer Reports.
- Agent Real Time report not available in user menu in Web Client, for some users.
- Web Client usage, over time, can cause CMS server CPU occupancy to increase and never reduce.
- Web Client Split/Skill Report data from one column can merge or overlap into the adjacent column.

The following **CMS Supervisor PC** fixes have been added to CMS R18.0.0.2:

- In some non-English languages, a range of VDNs was not accepted as input for reports. With this fix comes improved handling of 64-bit data types in report input processing for Supervisor PC client and Network Reporting.

5.3 Known Issues in CMS R18.0.0.2

1. CMS Supervisor PC client can experience issues when connecting to the CMS server if a user's password has automatically expired. While Avaya works to resolve this issue, a workaround has been provided. The workaround is a one line manual change to a file on the CMS server.
This change should be implemented during upgrade or installation of CMs R18.0.0.2. Please see PSN004460r1 for details.
-

6. CMS R18.0.1

6.1 New Functionality in 18.0.1

CMS R18.0.1 provides the following features:

- Dual IP: The ability to administer two IP addresses for the same ACD, to facilitate Communication Manager failover to ESS or LSP
- LAN Backup updates: Support for Veritas Netbackup 7.7.3 and IBM Spectrum Protect 7.1.4 (Note that IBM Spectrum Storage Protect was formerly known as Tivoli Storage Manager).

6.2 Bug Fixed in 18.0.1

The following CMS Server fixes have been added to CMS R18.0.1:

- A message indicating successful completion of Tivoli restore has been added to the restore.log file
- Failure of Non-EAS multi-agent skill change failed with CMS R18 and CM 7.x have been resolved.
- In some circumstances multiple duplicate rows will appear in Integrated Reports. The duplicate rows have been eliminated.
- Running the Forecast Manager resulted in a daily false alarm. The false alarm has been removed.
- The CMS call handling code assumed an agent's hold ended when the CM changed trunks without the agent's knowledge. This has been corrected so the hold is still tracked after CM generated transfers.
- When an agent logged out before a call they were on was recorded, an extra row was written to the hagent table with a tenant ID of 0. This has been fixed so no extra row with the wrong tenant ID is written to the hagent table.
- In some of the SIP refer/replace call scenarios with Experience Portal use, the call was marked as having the agent releasing first. This is now fixed so it will correctly show the caller hanging up first.
- When multi-tenancy was activated, some non-tenant users were receiving errors when running some reports.

- For Solaris SPARC CMS implementations only, several cumulative data measures in the HVECTOR and HVDN tables were always 0. The correct values are now written into the database.
- When agent trace is turned on or off for an agent before they log into the system, a core dump was created. The correction allows agent trace to be turned on or off at any time whether the agent is currently logged in or not.
- CMS real time processing can restart when a Designer report is executed that has an exceptionally long 'where' clause and contains another predicate word after the predicate word 'IN'.
- A complicated set of transfers used to connect calls routed by an application in Avaya Experience Portal caused problems in the CMS call handling code. That has been corrected.
- When database allocated space in a large CMS virtualized deployment exceeds 2 terabytes, various problems occur. This has been corrected to now allow up to 4 terabytes of free space in the large virtualized deployment.

The following CMS Supervisor Web fixes have been added to CMS R18.0.1 :

- Designer reports executed in CMS Web client displayed data incorrectly when the report had a "Totals" row. The report did not display the rows of data that make up the totals either above or below the totals line.
- The CMS Web client will now display an error message with the name of the missing calculation if a dictionary calculation is not present in the dictionary, allowing the customer to correct the problem.
- Real time reports may stop refreshing when executed in the CMS Web client.
- Designer reports executed in CMS Web client interface used wrong Russian Language encoding. Correct encoding now used. Details covered in PSN004823
- Reports will fail when executed in CMS Web client if a data item in a select contains an expression that contains a calculation.

The following CMS Supervisor PC fixes have been added to CMS R18.0.1:

- *11 September 2017: the following fixes are included in CMS PC Supervisor client version MA41:*
 - Some Designer Integrated Reports displaying incorrect number of rows in CMS Web where report includes Integrated and Real Time components.
 - When creating a new report using report Wizard, headings did not display properly on CMS Web.
 - A Report created using Report Designer, where input was set as multi-acd for split/skill, failed to open in CMS Web
 - CMS Web does not show the chart when the sync value on an Integrated Report is changed, the chart will not be updated with the new sync value while split/skills sync is changed.
 - The following 2 server messages were not translated into non-English languages
you have no permission for the cwc(s)
you have no permission for the tenant(s)

- For Integrated Reports (both Standard and Designer), the report refresh at 00:00 hours is now functioning properly.
- **Added 15 June 2017:**
 - Problems are resolved where Integrated Reports in CMS R18 Supervisor PC client, would stop updating.
- In CMS Supervisor, using the browse button allowed a tenant user to see dictionary information for other tenants. Changes were not allowed, but the user could view the dictionary information. This has been corrected and tenant users can no longer view dictionary items for other tenants.
- The Australia/Brisbane time zone has been added as a choice in the default time zone menu
- For the Historical -> Agent -> Group AUX Monthly report, executed in a CMS R18 Supervisor client when executing against a CMS R18 server, the date-based selection will pop-up instead of the month-based selection.
- CMS Supervisor now provides more clear and correct messages to the user when logging in with an expired password.
- The data type is now pre-selected for Start and End time fields in the Call Records Report : "Report" menu, "Design" option.
- A Call Work Code search will now return proper information when the search uses 3 digit CWCs separated with a dash (example: 311-313).
- Report-> Historical-> Split/Skill->Preferred Skill Level Summary Daily/Monthly/Weekly report column header now displaying properly as “ % Agent Surplus Preferred Skill level Calls” instead of displaying internal software name.
- For 32bit Windows 7, custom values in the HKCU\SOFTWARE\Avaya\Supervisor\18.0 are no longer overwritten. There was never a problem with 64 bit Windows 7.
- Users can now create scripts for Tenant administration.
-

Known Issues with CMS Supervisor PC in CMS R18.0.1:

- **Added 15 June 2017:** For Integrated Reports (both Standard and Designer), the report refresh at 00:00 hours is not functioning properly. For any Integrated Report that is running when the time changes from 23:59 to 00:00 that Integrated Report should be stopped and restarted after 00:00 to avoid issues. The time referred to is the actual time on the CMS server, not the time on the user PC.
- **11 September 2017:** This problem is resolved in CMS PC Supervisor client version MA41.

6.3 Documentation Updated for R18.0.1

The following documents have been updated for CMS 18.0.1:

- *Avaya CMS Overview and Specification*
- *Avaya CMS Supervisor Reports*
- *Avaya CMS LAN Backup*
- *Avaya CMS Switch Connections, Administration and Troubleshooting*
- *Avaya CMS Software Installation, Maintenance, and Troubleshooting for Linux*
- *Avaya CMS Software Installation, Maintenance, and Troubleshooting for Solaris*

You can download the document from <http://support.avaya.com>.

7. Download Instructions

For installation and upgrade implementation options, please consult your Account team or Sales team.

NOTE:

Please be sure to use the latest “Software Implementation, Maintenance and Troubleshooting” document for proper instructions.

For upgrade, customers should consult the “CMS Overview and Specifications” document to determine the proper upgrade procedure to use.

Go to <http://support.avaya.com> to view the full documentation set for CMS R18.

Appendix A: Patch Installation Instructions

A CMS server patch is required for CMS R18.0.1 GA load.

Patch summary:

The patch allows extremely complex Designer reports to execute. Without the patch, some Designer reports can fail to launch.

The patch only impacts Designer reports with very complex database queries. All standard reports and most Designer reports will execute if the patch is not installed.

Where to obtain the patch:

The patch can be downloaded from support.avaya.com

For Linux

r18ka.p_cmsp1-l.bin

For Solaris SPARC

r18ka.p.1-s.tar

Solaris x86

r18ka.p.1-x.tar

md5 checksums are provided on the site along with the patch file.

How to install the patch:

For Linux systems:

1. Download the Linux patch file to / on the CMS server.
2. Check the md5 checksum of the downloaded file from the CMS server) with the md5 checksum posted with the patch.
Prompt> cd /
Prompt> md5sum r18ka.p_cmsp1-l.bin
Prompt> chmod 744 r18ka.p_cmsp1-l.bin
3. Turn off CMS
4. Install the patch
Prompt> ./r18ka.p_cmsp1-l.bin
Follow prompts to install
5. Turn on CMS

For Solaris SPARC systems:

1. Download r18ka.p.1-s.tar to / on the CMS system.
2. Check the md5 checksum of the downloaded file from the CMS server) with the md5 checksum posted with the patch.

- Prompt> cd /
- Prompt> digest -v -a md5 r18ka.p.1-s.tar
- 3. Turn off CMS
- 4. Install the patch
 - Prompt> tar xvf r18ka.p.1-s.tar
 - Prompt> /cms/cmsspatches/cmsspatch_install_script
 - Follow prompts to install
- 5. Turn on CMS

For Solaris X86 systems:

- 1. Download r18ka.p.1-x.tar to / on the CMS system.
- 2. Check the md5 checksum of the downloaded file from the CMS server) with the md5 checksum posted with the patch.
 - Prompt> cd /
 - Prompt> digest -v -a md5 r18ka.p.1-x.tar
- 3. Turn off CMS
- 4. Install the patch
 - Prompt> tar xvf r18la.p.1-x.tar
 - Prompt> /cms/cmsspatches/cmsspatch_install_script
 - Follow prompts to install
- 5. Turn on CMS

Appendix B: Linux RPMs included in CMS R18.0.1

abrt-2.0.8-43.el6.x86_64	jpackage-utils-1.7.5-3.16.el6.noarch	parted-2.1-29.el6.x86_64
abrt-addon-ccpp-2.0.8-43.el6.x86_64	json-c-0.11-13.el6.x86_64	passwd-0.77-7.el6.x86_64
abrt-addon-kerneloops-2.0.8-43.el6.x86_64	kbd-1.15-11.el6.x86_64	pciutils-3.1.10-4.el6.x86_64
abrt-addon-python-2.0.8-43.el6.x86_64	kbd-misc-1.15-11.el6.noarch	pciutils-libs-3.1.10-4.el6.x86_64
abrt-cli-2.0.8-43.el6.x86_64	kernel-2.6.32-504.el6.x86_64	pcmciautils-015-4.2.el6.x86_64
abrt-libs-2.0.8-43.el6.x86_64	kernel-2.6.32-696.el6.x86_64	pcre-7.8-7.el6.x86_64
abrt-python-2.0.8-43.el6.x86_64	kernel-firmware-2.6.32-696.el6.noarch	perl-5.10.1-144.el6.x86_64
abrt-tui-2.0.8-43.el6.x86_64	kexec-tools-2.0.0-307.el6.x86_64	perl-libs-5.10.1-144.el6.x86_64
acl-2.2.49-7.el6.x86_64	keyutils-1.4-5.el6.x86_64	perl-Module-Pluggable-3.90-144.el6.x86_64
acpid-1.0.10-3.el6.x86_64	keyutils-libs-1.4-5.el6.i686	perl-Pod-Escapes-1.04-144.el6.x86_64
aic94xx-firmware-30-2.el6.noarch	keyutils-libs-1.4-5.el6.x86_64	perl-Pod-Simple-3.13-144.el6.x86_64
alsa-lib-1.1.0-4.el6.x86_64	keyutils-libs-devel-1.4-5.el6.x86_64	perl-version-0.77-144.el6.x86_64
alsa-utils-1.1.0-10.el6.x86_64	kpartx-0.4.9-100.el6.x86_64	pinentry-0.7.6-8.el6.x86_64
at-3.1.10-49.el6.x86_64	krb5-devel-1.10.3-65.el6.x86_64	pinfo-0.6.9-12.el6.x86_64
atmel-firmware-1.3-7.el6.noarch	krb5-libs-1.10.3-65.el6.i686	pkgconfig-0.23-9.1.el6.x86_64
attr-2.4.44-7.el6.x86_64	krb5-libs-1.10.3-65.el6.x86_64	plymouth-0.8.3-29.el6.x86_64
audit-2.4.5-6.el6.x86_64	ksh-20120801-33.el6.x86_64	plymouth-core-libs-0.8.3-29.el6.x86_64
audit-libs-2.4.5-6.el6.x86_64	lcms-libs-1.19-1.el6.x86_64	plymouth-scripts-0.8.3-29.el6.x86_64
augeas-libs-1.0.0-10.el6.x86_64	ledmon-0.79-1.el6.x86_64	pm-utils-1.2.5-11.el6.x86_64
authconfig-6.1.12-23.el6.x86_64	less-436-13.el6.x86_64	policycoreutils-2.0.83-30.1.el6_8.x86_64
avahi-libs-0.6.25-17.el6.x86_64	libacl-2.2.49-7.el6.x86_64	polkit-0.96-11.el6.x86_64
b43-fwcutter-012-2.2.el6.x86_64	libaio-0.3.107-10.el6.x86_64	poppler-0.12.4-11.el6.x86_64
b43-openfwfwf-5.2-10.el6.noarch	libattr-2.4.44-7.el6.x86_64	poppler-data-0.4.0-1.el6.noarch
basesystem-10.0-4.el6.noarch	libblkid-2.17.2-12.28.el6.x86_64	poppler-utils-0.12.4-11.el6.x86_64
bash-4.1.2-48.el6.x86_64	libcap-2.16-5.5.el6.x86_64	popt-1.13-7.el6.x86_64
bc-1.06.95-1.el6.x86_64	libcap-ng-0.6.4-3.el6_0.1.x86_64	portreserve-0.0.4-11.el6.x86_64
bfa-firmware-3.2.23-0.2.el6.noarch	libcom_err-1.41.12-23.el6.i686	postfix-2.6.6-8.el6.x86_64
bind-libs-9.8.2-0.62.rc1.el6.x86_64	libcom_err-1.41.12-23.el6.x86_64	prelink-0.4.6-3.1.el6_4.x86_64
bind-utils-9.8.2-0.62.rc1.el6.x86_64	libcom_err-devel-1.41.12-23.el6.x86_64	procmail-3.22-25.1.el6_5.1.x86_64
binutils-2.20.51.0.2-5.46.el6.x86_64	libcurl-7.19.7-53.el6_9.x86_64	procps-3.2.8-45.el6.x86_64
biosdevname-0.7.2-1.el6.x86_64	libdrm-2.4.65-2.el6.x86_64	psacct-6.3.2-70.el6.x86_64
blktrace-1.0.1-7.el6.x86_64	libedit-2.11-4.20080712cvs.1.el6.x86_64	psmisc-22.6-24.el6.x86_64
bridge-utils-1.2-10.el6.x86_64	libertas-usb8388-firmware-5.110.22.p23-3.1.el6.noarch	pth-2.0.7-9.3.el6.x86_64
btparser-0.17-2.el6.x86_64	libevent-1.4.13-4.el6.x86_64	pygobject2-2.20.0-5.el6.x86_64
busybox-1.15.1-21.el6_6.x86_64	libffi-3.0.5-3.2.el6.x86_64	pygpgme-0.1-18.20090824b2r68.el6.x86_64
bzip2-1.0.5-7.el6_0.x86_64	libfontenc-1.1.2-3.el6.x86_64	pyOpenSSL-0.13.1-2.el6.x86_64
bzip2-libs-1.0.5-7.el6_0.x86_64	libgcc-4.4.7-18.el6.i686	python-2.6.6-66.el6_8.x86_64

ca-certificates-2016.2.10-65.4.el6.noarch	libgcc-4.4.7-18.el6.x86_64	python-argparse-1.2.1-2.1.el6.noarch
checkpolicy-2.0.22-1.el6.x86_64	libgcrypt-1.4.5-12.el6_8.x86_64	python-dateutil-1.4.1-7.el6.noarch
chkconfig-1.3.49.5-1.el6.x86_64	libgpg-error-1.7-4.el6.x86_64	python-dmidecode-3.10.15-1.el6.x86_64
cms-R18.0.1.0-ka.p.x86_64	libgssglue-0.1-11.el6.x86_64	python-ethtool-0.6-6.el6.x86_64
cmsweb-R18.0.1.0-ka.p.x86_64	libgudev1-147-2.73.el6_8.2.x86_64	python-gudev-147.1-4.el6_0.1.x86_64
ConsoleKit-0.4.1-6.el6.x86_64	libICE-1.0.6-1.el6.x86_64	python-iniparse-0.3.1-2.1.el6.noarch
ConsoleKit-libs-0.4.1-6.el6.x86_64	libidn-1.18-2.el6.x86_64	python-iwlib-0.1-1.2.el6.x86_64
coreutils-8.4-46.el6.x86_64	libjpeg-turbo-1.2.1-3.el6_5.x86_64	python-libs-2.6.6-66.el6_8.x86_64
coreutils-libs-8.4-46.el6.x86_64	libkadm5-1.10.3-65.el6.x86_64	python-lxml-2.2.3-1.1.el6.x86_64
cpio-2.10-13.el6.x86_64	libnih-1.0.1-7.el6.x86_64	python-magic-5.04-30.el6.x86_64
cpuspeed-1.5-22.el6.x86_64	libnl-1.1.4-2.el6.x86_64	python-pycurl-7.19.0-9.el6.x86_64
cracklib-2.8.16-4.el6.x86_64	libpcap-1.4.0-4.20130826git2dbcaa1.el6.x86_64	python-rhsm-1.18.6-1.el6.x86_64
cracklib-dicts-2.8.16-4.el6.x86_64	libpciaccess-0.13.4-1.el6.x86_64	python-rhsm-certificates-1.18.6-1.el6.x86_64
crda-3.13_2015.10.22-3.el6.x86_64	libpng-1.2.49-2.el6_7.x86_64	python-six-1.9.0-2.el6.noarch
cronie-1.4.4-16.el6_8.2.x86_64	libproxy-0.3.0-10.el6.x86_64	python-urlgrabber-3.9.1-11.el6.noarch
cronie-anacron-1.4.4-16.el6_8.2.x86_64	libproxy-bin-0.3.0-10.el6.x86_64	ql2100-firmware-1.19.38-3.1.el6.noarch
crontabs-1.10-33.el6.noarch	libproxy-python-0.3.0-10.el6.x86_64	ql2200-firmware-2.02.08-3.1.el6.noarch
cryptsetup-luks-1.2.0-11.el6.x86_64	libreport-2.0.9-33.el6.x86_64	ql23xx-firmware-3.03.27-3.1.el6.noarch
cryptsetup-luks-libs-1.2.0-11.el6.x86_64	libreport-cli-2.0.9-33.el6.x86_64	ql2400-firmware-7.03.00-1.el6_5.noarch
cups-1.4.2-77.el6.x86_64	libreport-compat-2.0.9-33.el6.x86_64	ql2500-firmware-7.03.00-1.el6_5.noarch
cups-libs-1.4.2-77.el6.x86_64	libreport-filesystem-2.0.9-33.el6.x86_64	quota-3.17-23.el6.x86_64
curl-7.19.7-53.el6_9.x86_64	libreport-plugin-kerneloops-2.0.9-33.el6.x86_64	rdate-1.4-16.el6.x86_64
cyrus-sasl-2.1.23-15.el6_6.2.x86_64	libreport-plugin-logger-2.0.9-33.el6.x86_64	readahead-1.5.6-2.el6.x86_64
cyrus-sasl-lib-2.1.23-15.el6_6.2.x86_64	libreport-plugin-mailx-2.0.9-33.el6.x86_64	readline-6.0-4.el6.x86_64
cyrus-sasl-plain-2.1.23-15.el6_6.2.x86_64	libreport-plugin-reportuploader-2.0.9-33.el6.x86_64	Red_Hat_Enterprise_Linux_Release_Notes-6-en-US-8-2.el6.noarch
dash-0.5.5.1-4.el6.x86_64	libreport-plugin-rhtsupport-2.0.9-33.el6.x86_64	redhat-indexhtml-6-6.el6.noarch
db4-4.7.25-22.el6.x86_64	libreport-plugin-ureport-2.0.9-33.el6.x86_64	redhat-logos-60.0.14-1.el6.noarch
db4-utils-4.7.25-22.el6.x86_64	libreport-python-2.0.9-33.el6.x86_64	redhat-release-server-6Server-6.9.0.4.el6.x86_64
dbus-1.2.24-8.el6_6.x86_64	libseltlinux-2.0.94-7.el6.i686	redhat-support-lib-python-0.9.7-6.el6.noarch
dbus-glib-0.86-6.el6_4.x86_64	libseltlinux-2.0.94-7.el6.x86_64	redhat-support-tool-0.9.8-6.el6.noarch
dbus-libs-1.2.24-8.el6_6.x86_64	libseltlinux-devel-2.0.94-7.el6.x86_64	rftkill-0.3-4.el6.x86_64
dbus-python-0.83.0-6.1.el6.x86_64	libseltlinux-utils-2.0.94-7.el6.x86_64	rhn-check-1.0.0.1-43.el6.noarch
desktop-file-utils-0.15-9.el6.x86_64	libsemanage-2.0.43-5.1.el6.x86_64	rhn-client-tools-1.0.0.1-43.el6.noarch
device-mapper-1.02.117-12.el6.x86_64	libsepol-2.0.41-4.el6.x86_64	rhnlib-2.5.22-15.el6.noarch
device-mapper-event-1.02.117-12.el6.x86_64	libsepol-devel-2.0.41-4.el6.x86_64	rhnsd-4.9.3-5.el6.x86_64
device-mapper-event-libs-1.02.117-12.el6.x86_64	libSM-1.2.1-2.el6.x86_64	rhn-setup-1.0.0.1-43.el6.noarch
device-mapper-libs-1.02.117-12.el6.x86_64	libss-1.41.12-23.el6.x86_64	rng-tools-5-2.el6_7.x86_64
device-mapper-persistent-data-0.6.2-0.1.rc7.el6.x86_64	libssh2-1.4.2-2.el6_7.1.x86_64	rootfiles-8.1-6.1.el6.noarch
dhclient-4.1.1-53.P1.el6.x86_64	libstdc++-4.4.7-18.el6.i686	rpcbind-0.2.0-13.el6.x86_64

dhcp-common-4.1.1-53.P1.el6.x86_64	libstdc4.4.7-18.el6.x86_64	rpm-4.8.0-55.el6.x86_64
diffutils-2.8.1-28.el6.x86_64	libstdc-devel-4.4.7-18.el6.i686	rpm-libs-4.8.0-55.el6.x86_64
dmidecode-2.12-7.el6.x86_64	libtar-1.2.11-17.el6_4.1.x86_64	rpm-python-4.8.0-55.el6.x86_64
dmraid-1.0.0.rc16-11.el6.x86_64	libtasn1-2.3-6.el6_5.x86_64	rsh-0.17-64.el6.x86_64
dmraid-events-1.0.0.rc16-11.el6.x86_64	libtiff-3.9.4-21.el6_8.x86_64	rsync-3.0.6-12.el6.x86_64
dosfstools-3.0.9-4.el6.x86_64	libtirpc-0.2.1-13.el6.x86_64	rsyslog-5.8.10-10.el6_6.x86_64
dracut-004-409.el6_8.2.noarch	libudev-147-2.73.el6_8.2.x86_64	rt61pci-firmware-1.2-7.el6.noarch
dracut-kernel-004-409.el6_8.2.noarch	libusb-0.1.12-23.el6.x86_64	rt73usb-firmware-1.8-7.el6.noarch
e2fsprogs-1.41.12-23.el6.x86_64	libusb1-1.0.9-0.7.rc1.el6.x86_64	satyr-0.16-2.el6.x86_64
e2fsprogs-libs-1.41.12-23.el6.x86_64	libuser-0.56.13-8.el6_7.x86_64	scl-utils-20120927-27.el6_6.x86_64
ed-1.1-3.3.el6.x86_64	libutempter-1.1.5-4.1.el6.x86_64	sed-4.2.1-10.el6.x86_64
efibootmgr-0.5.4-15.el6.x86_64	Lib_Utils-1.00-09.noarch	selinux-policy-3.7.19-307.el6.noarch
eggdbus-0.6-3.el6.x86_64	libuuid-2.17.2-12.28.el6.x86_64	selinux-policy-targeted-3.7.19-307.el6.noarch
eject-2.1.5-17.el6.x86_64	libX11-1.6.4-3.el6.x86_64	sendmail-8.14.4-9.el6_8.1.x86_64
elfutils-0.164-2.el6.x86_64	libX11-common-1.6.4-3.el6.noarch	setserial-2.17-25.el6.x86_64
elfutils-libelf-0.164-2.el6.i686	libXau-1.0.6-4.el6.x86_64	setup-2.8.14-23.el6.noarch
elfutils-libelf-0.164-2.el6.x86_64	libxcb-1.12-4.el6.x86_64	setuptools-1.19.9-4.el6.x86_64
elfutils-libelf-devel-0.164-2.el6.i686	libXext-1.3.3-1.el6.x86_64	sg3_utils-libs-1.28-12.el6.x86_64
elfutils-libs-0.164-2.el6.x86_64	libXfont-1.5.1-2.el6.x86_64	sgpio-1.2.0.10-5.el6.x86_64
ethtool-3.5-6.el6.x86_64	libXi-1.7.8-1.el6.x86_64	shadow-utils-4.1.5.1-5.el6.x86_64
expat-2.0.1-13.el6_8.x86_64	libxml2-2.7.6-21.el6_8.1.x86_64	shared-mime-info-0.70-6.el6.x86_64
expect-5.44.1.15-5.el6_4.x86_64	libxml2-python-2.7.6-21.el6_8.1.x86_64	slang-2.2.1-1.el6.x86_64
file-5.04-30.el6.x86_64	libXrender-0.9.10-1.el6.x86_64	smartmontools-5.43-3.el6.x86_64
file-libs-5.04-30.el6.x86_64	libxslt-1.1.26-2.el6_3.1.x86_64	snappy-1.1.0-1.el6.x86_64
filesystem-2.4.30-3.el6.x86_64	libXtst-1.2.3-1.el6.x86_64	sos-3.2-54.el6.noarch
findutils-4.4.2-9.el6.x86_64	lm_sensors-libs-3.1.1-17.el6.x86_64	sqlite-3.6.20-1.el6_7.2.x86_64
fipscheck-1.2.0-7.el6.x86_64	logrotate-3.7.8-28.el6.x86_64	strace-4.8-11.el6.x86_64
fipscheck-lib-1.2.0-7.el6.x86_64	lsof-4.82-5.el6.x86_64	sudo-1.8.6p3-27.el6.x86_64
fontconfig-2.8.0-5.el6.x86_64	lua-5.1.4-4.1.el6.x86_64	sysstat-9.0.4-33.el6.x86_64
freetype-2.3.11-17.el6.x86_64	lvm2-2.02.143-12.el6.x86_64	system-config-firewall-base-1.2.27-7.2.el6_6.noarch
ftp-0.17-54.el6.x86_64	lvm2-libs-2.02.143-12.el6.x86_64	system-config-firewall-tui-1.2.27-7.2.el6_6.noarch
gamin-0.1.10-9.el6.x86_64	lzo-2.03-3.1.el6_5.1.x86_64	system-config-network-tui-1.6.0.el6.3-4.el6.noarch
gawk-3.1.7-10.el6_7.3.x86_64	m2crypto-0.20.2-9.el6.x86_64	systemtap-runtime-2.9-7.el6.x86_64
gdb-7.2-92.el6.x86_64	m4-1.4.13-5.el6.x86_64	sysvinit-tools-2.87-6.ds.el6.x86_64
gdbm-1.8.0-39.el6.x86_64	mailx-12.4-8.el6_6.x86_64	tar-1.23-15.el6_8.x86_64
giflib-4.1.6-3.1.el6.x86_64	make-3.81-23.el6.x86_64	tcl-8.5.7-6.el6.x86_64
glib2-2.28.8-9.el6.x86_64	MAKEDEV-3.24-6.el6.x86_64	tcpdump-4.0.0-11.20090921gitdf3cb4.2.el6.x86_64
glibc-2.12-1.209.el6.i686	man-1.6f-39.el6.x86_64	tcp_wrappers-7.6-58.el6.x86_64
glibc-2.12-1.209.el6.x86_64	man-pages-3.22-20.el6.noarch	tcp_wrappers-libs-7.6-58.el6.x86_64
glibc-common-2.12-1.209.el6.x86_64	man-pages-overrides-6.9.1-1.el6.noarch	tcsh-6.17-38.el6.x86_64
gmp-4.3.1-12.el6.x86_64	mdadm-3.3.4-8.el6.x86_64	telnet-0.17-48.el6.x86_64

gnupg2-2.0.14-8.el6.x86_64	MegaCli-8.04.07-1.noarch	telnet-server-0.17-48.el6.x86_64
gnutls-2.12.23-21.el6.x86_64	microcode_ctl-1.17-25.el6.x86_64	time-1.7-38.el6.x86_64
gpgme-1.1.8-3.el6.x86_64	mingetty-1.08-5.el6.x86_64	tmpwatch-2.9.16-6.el6.x86_64
gpg-pubkey-2fa658e0-45700c69	mlocate-0.22.2-6.el6.x86_64	traceroute-2.0.14-2.el6.x86_64
gpg-pubkey-fd431d51-4ae0493b	module-init-tools-3.9-26.el6.x86_64	ttmkfdir-3.0.9-32.1.el6.x86_64
gpm-libs-1.20.6-12.el6.x86_64	mtr-0.75-5.el6.x86_64	tzdata-2017b-1.el6.noarch
grep-2.20-6.el6.x86_64	mt-st-1.1-5.el6.x86_64	tzdata-java-2017b-1.el6.noarch
groff-1.18.1.4-21.el6.x86_64	mysql-libs-5.1.73-8.el6_8.x86_64	udev-147-2.73.el6_8.2.x86_64
grub-0.97-99.el6.x86_64	nano-2.0.9-7.el6.x86_64	unzip-6.0-5.el6.x86_64
grubby-7.0.15-7.el6.x86_64	ncurses-5.7-4.20090207.el6.x86_64	upstart-0.6.5-16.el6.x86_64
gskcrypt64-8.0-50.10.x86_64	ncurses-base-5.7-4.20090207.el6.x86_64	usbutils-003-6.el6.x86_64
gskssl64-8.0-50.10.x86_64	ncurses-libs-5.7-4.20090207.el6.i686	usermode-1.102-3.el6.x86_64
gzip-1.3.12-24.el6.x86_64	ncurses-libs-5.7-4.20090207.el6.x86_64	ustr-1.0.4-9.1.el6.x86_64
hal-0.5.14-14.el6.x86_64	net-snmp-5.5-60.el6.x86_64	util-linux-ng-2.17.2-12.28.el6.x86_64
hal-info-20090716-5.el6.noarch	net-snmp-libs-5.5-60.el6.x86_64	vconfig-1.9-8.1.el6.x86_64
hal-libs-0.5.14-14.el6.x86_64	net-tools-1.60-114.el6.x86_64	vim-common-7.4.629-5.el6_8.1.x86_64
hdparm-9.43-4.el6.x86_64	newt-0.52.11-4.el6.x86_64	vim-enhanced-7.4.629-5.el6_8.1.x86_64
hesiod-3.1.0-19.el6.x86_64	newt-python-0.52.11-4.el6.x86_64	vim-filessystem-7.4.629-5.el6_8.1.x86_64
hpssacl-2.0-23.0.x86_64	nfs-utils-1.2.3-75.el6.x86_64	vim-minimal-7.4.629-5.el6_8.1.x86_64
hunspell-1.2.8-16.el6.x86_64	nfs-utils-lib-1.1.5-13.el6.x86_64	virt-what-1.11-1.3.el6.x86_64
hunspell-en-0.20090216-7.1.el6.noarch	nspr-4.13.1-1.el6.x86_64	wget-1.12-10.el6.x86_64
hwdata-0.233-18.1.el6.noarch	nss-3.27.1-13.el6.x86_64	which-2.19-6.el6.x86_64
info-4.13a-8.el6.x86_64	nss-softokn-3.14.3-23.3.el6_8.x86_64	wireless-tools-29-6.el6.x86_64
initscripts-9.03.58-1.el6.x86_64	nss-softokn-freebl-3.14.3-23.3.el6_8.i686	words-3.0-17.el6.noarch
iproute-2.6.32-54.el6.x86_64	nss-softokn-freebl-3.14.3-23.3.el6_8.x86_64	xdg-utils-1.0.2-17.20091016cvs.el6.noarch
iptables-1.4.7-16.el6.x86_64	nss-softokn-freebl-devel-3.14.3-23.3.el6_8.i686	xinetd-2.3.14-40.el6.x86_64
iptables-ipv6-1.4.7-16.el6.x86_64	nss-sysinit-3.27.1-13.el6.x86_64	xmlrpc-c-1.16.24-1210.1840.el6.x86_64
iputils-20071127-24.el6.x86_64	nss-tools-3.27.1-13.el6.x86_64	xmlrpc-c-client-1.16.24-1210.1840.el6.x86_64
ipw2100-firmware-1.3-11.el6.noarch	nss-util-3.27.1-3.el6.x86_64	xorg-x11-drv-ati-firmware-7.6.1-2.el6.noarch
ipw2200-firmware-3.1-4.el6.noarch	ntp-4.2.6p5-10.el6_8.2.x86_64	xorg-x11-fonts-Type1-7.2-11.el6.noarch
irqbalance-1.0.7-8.el6.x86_64	ntpdate-4.2.6p5-10.el6_8.2.x86_64	xorg-x11-font-utils-7.2-11.el6.x86_64
ivtv-firmware-20080701-20.2.noarch	ntsysv-1.3.49.5-1.el6.x86_64	xz-4.999.9-0.5.beta.20091007git.el6.x86_64
iw-4.1-1.el6.x86_64	numactl-2.0.9-2.el6.x86_64	xz-libs-4.999.9-0.5.beta.20091007git.el6.x86_64
iwl1000-firmware-39.31.5.1-1.el6.noarch	openjpeg-libs-1.3-16.el6_8.x86_64	xz-lzma-compat-4.999.9-0.5.beta.20091007git.el6.x86_64
iwl100-firmware-39.31.5.1-1.el6.noarch	openldap-2.4.40-16.el6.x86_64	yum-3.2.29-81.el6.noarch
iwl3945-firmware-15.32.2.9-4.el6.noarch	openssh-5.3p1-122.el6.x86_64	yum-metadata-parser-1.1.2-16.el6.x86_64
iwl4965-firmware-228.61.2.24-2.1.el6.noarch	openssh-clients-5.3p1-122.el6.x86_64	yum-plugin-security-1.1.30-40.el6.noarch
iwl5000-firmware-8.83.5.1-1.el6_1.1.noarch	openssh-server-5.3p1-122.el6.x86_64	yum-rhn-plugin-0.9.1-60.2.el6_8.noarch
iwl5150-firmware-8.24.2.2-1.el6.noarch	openssl-1.0.1e-57.el6.i686	yum-utils-1.1.30-40.el6.noarch
iwl6000-firmware-9.221.4.1-1.el6.noarch	openssl-1.0.1e-57.el6.x86_64	zd1211-firmware-1.4-4.el6.noarch
iwl6000g2a-firmware-17.168.5.3-	openssl-devel-1.0.1e-57.el6.i686	zip-3.0-1.el6_7.1.x86_64

1.el6.noarch		
iwl6050-firmware-41.28.5.1-2.el6.noarch	p11-kit-0.18.5-2.el6_5.2.x86_64	zlib-1.2.3-29.el6.i686
jasper-libs-1.900.1-16.el6_6.3.x86_64	p11-kit-trust-0.18.5-2.el6_5.2.x86_64	zlib-1.2.3-29.el6.x86_64
java-1.8.0-openjdk-1.8.0.121-1.b13.el6.x86_64	pam-1.1.1-24.el6.x86_64	zlib-devel-1.2.3-29.el6.x86_64
java-1.8.0-openjdk-headless-1.8.0.121-1.b13.el6.x86_64	pam_passwdqc-1.0.5-8.el6.x86_64	

Appendix C: Solaris SPARC Packages Included in R18.0.1

Solaris SPARC (X86 list follows the SPARC list):

CTEact 8.17	SUNWgnome-search-tool-share 2.6.0,REV=10.0.3.2004.12.16.00.58	SUNWpool 11.10.0,REV=2005.01.21.15.53
RICHPse 3.4 (03:59 PM 01/05/05)	SUNWgnome-session 2.6.0,REV=10.0.3.2004.12.21.13.03	SUNWpoolr 11.10.0,REV=2005.01.21.15.53
SMCexpect 5.45	SUNWgnome-session-root 2.6.0,REV=10.0.3.2004.12.21.13.03	SUNWpostrun 1.0,REV=101.0.3.2008.02.06.11.57
SMClgcc346 3.4.6	SUNWgnome-session-share 2.6.0,REV=10.0.3.2004.12.21.13.03	SUNWpostrun-root 1.0,REV=101.0.3.2008.02.06.11.57
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SUNWfss 11.10.0,REV=2005.01.21.15.53	SUNWnfscu 11.10.0,REV=2005.01.21.15.53	SUNWxorg-cfg 6.6.2.7600,REV=0.2007.06.22
SUNWfsu 11.10.0,REV=2009.02.24.04.40	SUNWnfsskr 11.10.0,REV=2005.01.21.15.53	SUNWxorg-clientlibs 6.8.0.5.10.7400,REV=0.2004.12.15
SUNWftpr 11.10.0,REV=2005.01.21.15.53	SUNWnfssr 11.10.0,REV=2005.01.21.15.53	SUNWxorg-graphics-ddx 6.6.2.7600,REV=0.2007.06.22
SUNWftpu 11.10.0,REV=2005.01.21.15.53	SUNWnfssu 11.10.0,REV=2005.01.21.15.53	SUNWxorg-server 6.6.2.7600,REV=0.2007.06.22
SUNWfflash 11.10.0,REV=2008.02.29.16.01	SUNWnistr 11.10.0,REV=2005.01.21.15.53	SUNWxorg-tsol-module 6.6.2.0500,REV=0.2008.02.15
SUNWgccruntime 11.10.0,REV=2005.01.08.05.16	SUNWnisu 11.10.0,REV=2005.01.21.15.53	SUNWxorg-xkb 6.6.2.7600,REV=0.2007.06.22
SUNWged 3.1,REV=2004.11.17.10.0	SUNWniumx 11.10.0,REV=2007.06.20.13.33	SUNWxwacx 6.6.2.7400,REV=0.2004.12.15
SUNWglrt 200.1.5,REV=2011.05.5	SUNWntp4r 11.10.0,REV=2009.07.02.14.13	SUNWxwcft 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-base-libs 2.6.0,REV=10.0.3.2004.12.15.15.24	SUNWntp4u 11.10.0,REV=2009.07.02.14.13	SUNWxwcsi 3.0,REV=2004.11.24.10.12
SUNWgnome-base-libs-priv 2.24.2,REV=101.0.6	SUNWntpr 11.10.0,REV=2005.01.21.15.53	SUNWxwdv 11.10.0,REV=2005.01.21.15.53
SUNWgnome-base-libs-priv-l10n 2.24.2,REV=101.0.6	SUNWntpu 11.10.0,REV=2005.01.21.15.53	SUNWxwdxm 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-base-libs-root 2.6.0,REV=10.0.3.2004.12.15.15.24	SUNWnxge 11.10.0,REV=2007.07.08.17.44	SUNWxwfa 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-base-libs-share 2.6.0,REV=10.0.3.2004.12.15.15.24	SUNWocf 11.10.0,REV=2005.01.21.15.53	SUNWxwfont 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-config 2.6.0,REV=10.0.3.2004.12.15.16.48	SUNWocfr 11.10.0,REV=2005.01.21.15.53	SUNWxwhl 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-config-root 2.6.0,REV=10.0.3.2004.12.15.16.48	SUNWocm 11.11,REV=2011.07.05.12.35	SUNWxwice 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-config-share 2.6.0,REV=10.0.3.2004.12.15.16.48	SUNWoffice-launcher 1.1,REV=101.0.3.2010.05.26.07.13	SUNWxwman 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-desktop-prefs 2.6.0,REV=10.0.3.2004.12.21.13.18	SUNWofk 11.10.0,REV=2010.07.14.15.40	SUNWxwmod 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-desktop-prefs-root 2.6.0,REV=10.0.3.2004.12.21.13.18	SUNWolrte 3.7.3,REV=1.2004.06.28	SUNWxwopt 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-desktop-prefs-share 2.6.0,REV=10.0.3.2004.12.21.13.18	SUNWopenssl-commands 11.10.0,REV=2005.01.21.15.53	SUNWxwpft 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-dtlogin-integration 2.6.0,REV=10.0.3.2004.12.16.13.59	SUNWopenssl-libraries 11.10.0,REV=2005.01.21.15.53	SUNWxwpl 10.0,REV=2004.09.23.16.01

SUNWgnome-file-mgr 2.6.0,REV=10.0.3.2004.12.15.19.24	SUNWopensslr 11.10.0,REV=2005.01.21.15.53	SUNWxwplr 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-file-mgr-root 2.6.0,REV=10.0.3.2004.12.15.19.24	SUNWowbcp 3.8.0,REV=1.2002.10.04	SUNWxwplt 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-file-mgr-share 2.6.0,REV=10.0.3.2004.12.15.19.24	SUNWpapi 11.10.0,REV=2005.01.08.05.16	SUNWxwpsr 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-help-viewer 2.6.0,REV=10.0.3.2004.12.15.21.24	SUNWpcr 13.1,REV=2005.01.21.15.53	SUNWxwrtl 6.6.2.7400,REV=0.2004.12.15
SUNWgnome-help-viewer-share 2.6.0,REV=10.0.3.2004.12.15.21.24	SUNWpcu 13.1,REV=2005.01.21.15.53	SUNWxwts 6.6.2.4099,REV=0.2006.10.13
SUNWgnome-im-client-devel 2.7.0,REV=11.01.21.2011.03.08.04.03	SUNWperl584core 11.10.0,REV=2005.01.21.15.53	SUNWzfskr 11.10.0,REV=2006.05.18.02.15
SUNWgnome-libs 2.6.0,REV=10.0.3.2004.12.15.17.32	SUNWperl584usr 11.10.0,REV=2005.01.21.15.53	SUNWzfsr 11.10.0,REV=2006.05.18.02.15
SUNWgnome-libs-root 2.6.0,REV=10.0.3.2004.12.15.17.32	SUNWpiclr 11.10.0,REV=2005.01.21.15.53	SUNWzfsu 11.10.0,REV=2006.05.18.02.15
SUNWgnome-libs-share 2.6.0,REV=10.0.3.2004.12.15.17.32	SUNWpiclu 11.10.0,REV=2005.01.21.15.53	SUNWzlib 11.10.0,REV=2005.01.08.05.16
SUNWgnome-panel 2.6.0,REV=10.0.3.2004.12.15.19.13	SUNWpixmap 6.6.2.4099,REV=0.2009.06.21	StorMan 5.50 (17530)
SUNWgnome-panel-root 2.6.0,REV=10.0.3.2004.12.15.19.13	SUNWpkgcmdsr 11.11,REV=2005.01.09.23.05	cms r18ka.p
SUNWgnome-panel-share 2.6.0,REV=10.0.3.2004.12.15.19.13	SUNWpkgcmdsu 11.11,REV=2005.01.09.23.05	cmsweb web18ka.p
SUNWgnome-removable-media 2.6.0,REV=10.0.3.2004.12.16.00.00	SUNWplow1 1.0,REV=2004.11.10.13.49	gsk8cry64 8.0.50.10
SUNWgnome-removable-media-share 2.6.0,REV=10.0.3.2004.12.16.00.00	SUNWplowr 11.10.0,REV=2004.08.12.10.19	gsk8ssl64 8.0.50.10
SUNWgnome-search-tool 2.6.0,REV=10.0.3.2004.12.16.00.58	SUNWpng 20.2.6.0,REV=10.0.3.2004.12.15.14.11	

Appendix D: Solaris X86 Packages Included in R18.0.1

Solaris X86 list:

BRCMbnx 11.10.0,REV=2007.06.20.13.12	SUNWgnome-removable-media 2.6.0,REV=10.0.3.2004.12.16.19.52	SUNWpoolr 11.10.0,REV=2005.01.21.16.34
BRCMbnxe 11.10.0,REV=2010.07.14.14.54	SUNWgnome-removable-media-share 2.6.0,REV=10.0.3.2004.12.16.19.52	SUNWpostrun 1.0,REV=101.0.3.2008.02.06.05.56
CADP160 1.21,REV=2005.01.17.23.31	SUNWgnome-search-tool 2.6.0,REV=10.0.3.2004.12.16.20.27	SUNWpostrun-root 1.0,REV=101.0.3.2008.02.06.05.56
CPQary3 11.10.0,REV=2010.07.14.14.54	SUNWgnome-search-tool-share 2.6.0,REV=10.0.3.2004.12.16.20.27	SUNWppm 11.10.0,REV=2005.01.21.16.34
CTEact 8.17	SUNWgnome-session 2.6.0,REV=10.0.3.2004.12.21.12.59	SUNWpppd 11.10.0,REV=2005.01.21.16.34
HPFC 1.1.0,REV=2005.01.06.07.16	SUNWgnome-session-root 2.6.0,REV=10.0.3.2004.12.21.12.59	SUNWpppdr 11.10.0,REV=2005.01.21.16.34
NCRos86r 11.10.0,REV=2005.01.17.23.31	SUNWgnome-session-share 2.6.0,REV=10.0.3.2004.12.21.12.59	SUNWpppdt 11.10.0,REV=2005.01.21.16.34
NVDAGraphics 260.19.29,REV=2010.12.15.09.51	SUNWgnome-themes 2.6.0,REV=10.0.3.2004.12.16.15.58	SUNWpppdu 11.10.0,REV=2005.01.21.16.34
NVDAGraphicsr 260.19.29.01,REV=2011.02.07.12.11	SUNWgnome-themes-share 2.6.0,REV=10.0.3.2004.12.16.15.58	SUNWpr 4.5.1,REV=2004.11.05.03.44
RICHPse 3.4 (03:59 PM 01/05/05)	SUNWgnome-user-docs 2.6.0,REV=10.0.3.2004.12.16.20.21	SUNWproduct-registry-root 11.10,REV=2005.01.09.21.19
SK98sol 3.07,REV=2005.01.06.07.16	SUNWgnome-vfs 2.6.0,REV=10.0.3.2004.12.16.15.40	SUNWpsdcr 11.10.0,REV=2005.01.21.16.34
SKfp 2.0.0,REV=2005.01.06.07.16	SUNWgnome-vfs-root 2.6.0,REV=10.0.3.2004.12.16.15.40	SUNWpsdir 11.10.0,REV=2005.01.21.16.34
SMCexpect 5.45	SUNWgnome-vfs-share 2.6.0,REV=10.0.3.2004.12.16.15.40	SUNWpsdpr 11.10.0,REV=2005.01.21.16.34
SMClgcc346 3.4.6	SUNWgnome-wm 2.6.0,REV=10.0.3.2004.12.16.18.35	SUNWpsf 13.1,REV=2005.01.21.16.34
SMCtl 8.5.10	SUNWgnome-wm-root 2.6.0,REV=10.0.3.2004.12.16.18.35	SUNWpsm-ipp 11.10.0.0,REV=2008.02.29.14.37
SOLMEGACLI 8.00.23	SUNWgnome-wm-share 2.6.0,REV=10.0.3.2004.12.16.18.35	SUNWpsm-lpd 11.10.0,REV=2005.01.08.01.09
SUNWPython 2.3.3,REV=10.0.3.2004.12.16.14.40	SUNWgnome-xml-root 2.6.0,REV=10.0.3.2004.12.16.14.49	SUNWpsr 13.1,REV=2005.01.21.16.34
SUNWPython-share 2.3.3,REV=10.0.3.2004.12.16.14.40	SUNWgnome-xml-share 2.6.0,REV=10.0.3.2004.12.16.14.49	SUNWpsu 13.1,REV=2005.01.21.16.34
SUNWaac 11.10.0,REV=2005.01.21.16.34	SUNWgrub 11.10.0,REV=2005.09.03.12.22	SUNWqlc 11.10.0,REV=2005.01.04.14.30
SUNWaccr 11.10.0,REV=2005.01.21.16.34	SUNWgss 11.10.0,REV=2005.01.21.16.34	SUNWqlcnic 11.10.0,REV=2011.03.24.04.28
SUNWaccu 11.10.0,REV=2005.01.21.16.34	SUNWgssc 11.10.0,REV=2005.01.21.16.34	SUNWqlcu 11.10.0,REV=2006.02.21.05.35
SUNWad810 11.10.0,REV=2005.01.21.16.34	SUNWgssdh 11.10.0,REV=2005.01.21.16.34	SUNWqos 11.10.0,REV=2005.01.21.16.34
SUNWadixp 11.10.0,REV=2007.06.20.13.12	SUNWgssk 11.10.0,REV=2005.01.21.16.34	SUNWqosu 11.10.0,REV=2005.01.21.16.34
SUNWadmap 11.10,REV=2005.01.09.21.19	SUNWgzip 11.10.0,REV=2005.01.08.01.09	SUNWradpu320 11.10.0,REV=2005.01.21.16.34
SUNWadmc 11.9,REV=2005.01.09.20.41	SUNWhermon 11.10.0,REV=2007.06.20.13.12	SUNWrcmdc 11.10.0,REV=2005.01.21.16.34
SUNWadmfr 11.10,REV=2005.01.09.20.41	SUNWhxge 11.10.0,REV=2009.06.07.23.01	SUNWrcmdr 11.10.0,REV=2005.01.21.16.34
SUNWadmfw 11.8,REV=2005.01.09.20.41	SUNWi13rf 3.6,REV=2004.08.12.10.21	SUNWrcmds 11.10.0,REV=2005.01.21.16.34
SUNWadmlib-sysid 11.10,REV=2005.01.09.20.41	SUNWi15cs 2.0,REV=2004.10.17.15.04	SUNWrds3 11.10.0,REV=2010.07.14.14.54
SUNWadmr 11.10,REV=2005.01.09.21.19	SUNWi15rf 3.6,REV=2004.08.12.10.21	SUNWrds3u 11.10.0,REV=2010.07.14.14.54
SUNWadp 11.10.0,REV=2005.01.17.23.31	SUNWi1cs 2.0,REV=2004.10.17.15.04	SUNWrge 11.10.0,REV=2006.03.27.18.17

SUNWadpu320 11.10.0,REV=2005.01.21.16.34	SUNWi2rf 3.6,REV=2004.09.15.13.24	SUNWrmodr 11.10.0,REV=2005.01.21.16.34
SUNWaggp 11.10.0,REV=2006.07.11.10.58	SUNWi4rf 3.6,REV=2004.11.10.13.52	SUNWrmodu 11.10.0,REV=2005.01.21.16.34
SUNWahci 11.10.0,REV=2007.06.20.13.12	SUNWi5rf 3.6,REV=2004.05.26.16.52	SUNWroute 11.10.0,REV=2005.01.21.16.34
SUNWamd8111s 11.10.0,REV=2006.11.06.19.53	SUNWi7rf 3.6,REV=2004.05.26.16.52	SUNWrpcib 11.10.0,REV=2005.01.21.16.34
SUNWamr 11.10.0,REV=2005.01.21.16.34	SUNWi8rf 4.3,REV=2004.08.12.10.22	SUNWrsg 11.10.0,REV=2005.01.21.16.34
SUNWatfsr 11.10.0,REV=2005.01.21.16.34	SUNWi9rf 3.6,REV=2004.11.22.11.27	SUNWrsgk 11.10.0,REV=2005.01.21.16.34
SUNWatfsu 11.10.0,REV=2005.01.21.16.34	SUNWib 11.10.0,REV=2005.01.21.16.34	SUNWrtls 11.10.0,REV=2005.01.21.16.34
SUNWaudd 11.10.0,REV=2005.01.21.16.34	SUNWibsdp 11.10.0,REV=2008.02.29.14.37	SUNWsbp2 11.10.0,REV=2005.01.21.16.34
SUNWaudiodhd 11.10.0,REV=2006.09.26.23.47	SUNWibsdpib 11.10.0,REV=2008.02.29.14.37	SUNWscplp 13.1,REV=2005.01.21.16.34
SUNWautoregr 1.0,REV=2010.07.09.12.42	SUNWibsdpu 11.10.0,REV=2008.02.29.14.37	SUNWscpr 11.10.0,REV=2005.01.21.16.34
SUNWautoregu 1.0,REV=2010.06.24.08.30	SUNWidnl 11.10.0,REV=2004.11.22.18.47	SUNWscpu 11.10.0,REV=2005.01.21.16.34
SUNWbart 11.10.0,REV=2005.01.21.16.34	SUNWigb 11.10.0,REV=2008.02.29.14.37	SUNWscsip 11.10.0,REV=2008.08.11.22.37
SUNWbcmssata 11.10.0,REV=2010.07.14.14.54	SUNWimraidsas 11.10.0,REV=2011.03.24.04.28	SUNWscusas 11.10.0,REV=2011.06.19.22.12
SUNWbind 11.10.0,REV=2005.01.08.01.09	SUNWinst 11.11,REV=2005.01.09.21.19	SUNWses 11.10.0,REV=2006.03.15.01.46
SUNWbindr 11.10.0,REV=2005.01.08.01.09	SUNWinstall-patch-utils-root 11.10,REV=2005.01.09.21.19	SUNWsi3124 11.10.0,REV=2006.03.27.18.17
SUNWbip 11.10.0,REV=2005.01.21.16.34	SUNWintgige 11.10.0,REV=2005.01.21.16.34	SUNWsmagt 1.0,REV=2005.01.08.01.09
SUNWbipr 11.10.0,REV=2005.01.21.16.34	SUNWipc 11.10.0,REV=2005.01.21.16.34	SUNWsmapi 11.10.0,REV=2005.01.21.16.34
SUNWbnur 11.10.0,REV=2005.01.21.16.34	SUNWipfr 11.10.0,REV=2005.01.21.16.34	SUNWsmbac 11.10.0,REV=2005.01.08.01.09
SUNWbnuu 11.10.0,REV=2005.01.21.16.34	SUNWipfu 11.10.0,REV=2005.01.21.16.34	SUNWsmbar 11.10.0,REV=2005.01.08.01.09
SUNWbsr 11.10.0,REV=2005.01.21.16.34	SUNWipoib 11.10.0,REV=2005.01.21.16.34	SUNWsmbau 11.10.0,REV=2005.01.08.01.09
SUNWbsu 11.10.0,REV=2005.01.21.16.34	SUNWippcore 13.1,REV=2005.01.08.01.09	SUNWsmprd 11.10.0,REV=2008.08.11.22.37
SUNWbtool 11.10.0,REV=2005.01.21.16.34	SUNWiscsir 11.10.0,REV=2005.01.04.14.30	SUNWsndmr 11.10.0,REV=2005.01.21.16.34
SUNWbzip 11.10.0,REV=2005.01.08.01.09	SUNWiscsiu 11.10.0,REV=2005.01.04.14.30	SUNWsndmu 11.10.0,REV=2005.01.21.16.34
SUNWcadp 11.10.0,REV=2005.01.17.23.31	SUNWixgb 11.10.0,REV=2005.01.21.16.34	SUNWsnep 7.1
SUNWcakr 11.10.0,REV=2005.01.21.16.34	SUNWixgbe 11.10.0,REV=2008.08.11.22.37	SUNWsolnm 10,REV=2011.08.23.14.17
SUNWcar 11.10.0,REV=2005.01.21.16.34	SUNWj3rt 1.4.2,REV=2011.05.04.14.48	SUNWspot 5.10,REV=2004.12.18
SUNWcdrw 11.10.0,REV=2005.01.21.16.34	SUNWj8rt 1.8.0,REV=2014.03.18.07.33	SUNWsshcu 11.10.0,REV=2005.01.21.16.34
SUNWced 1.0,REV=2004.12.24.10.0	SUNWjhrt 2.0,REV=2006.10.31	SUNWsshdr 11.10.0,REV=2005.01.21.16.34
SUNWcfcl 11.10.0,REV=2005.01.04.14.30	SUNWjmf 2.1.2,REV=10.0.3.2004.12.14	SUNWsshdu 11.10.0,REV=2005.01.21.16.34
SUNWcfclr 11.10.0,REV=2005.01.04.14.30	SUNWjss 4.0,REV=2004.11.05.03.05	SUNWsshr 11.10.0,REV=2005.01.21.16.34
SUNWcfpl 11.10.0,REV=2005.01.04.14.30	SUNWkey 11.10.0,REV=2005.01.21.16.34	SUNWsshu 11.10.0,REV=2005.01.21.16.34
SUNWcfplr 11.10.0,REV=2005.01.04.14.30	SUNWkrbr 11.10.0,REV=2005.01.21.16.34	SUNWswmt 11.10,REV=2005.01.10.15.35
SUNWchxge 11.10.0,REV=2006.02.15.19.45	SUNWkrbu 11.10.0,REV=2005.01.21.16.34	SUNWtavor 11.10.0,REV=2005.01.21.16.34
SUNWckr 11.10.0,REV=2005.01.21.16.34	SUNWkvm 11.10.0,REV=2005.01.21.16.34	SUNWtcdp 11.10.0,REV=2005.01.21.16.34
SUNWcnetr 11.10.0,REV=2005.01.21.16.34	SUNWkxfnt 10.0,REV=2004.08.11.17.02	SUNWtecla

		11.10.0,REV=2005.01.21.16.34
SUNWcnsr 11.10.0,REV=2005.01.21.16.34	SUNWlcl 1.5,REV=2004.11.24.10.12	SUNWter 11.10.0,REV=2005.01.21.16.34
SUNWcnsu 11.10.0,REV=2005.01.21.16.34	SUNWlexpt 11.10.0,REV=2005.01.08.01.09	SUNWtftp 11.10.0,REV=2005.01.21.16.34
SUNWcpc 11.10.0,REV=2005.01.21.16.34	SUNWlibC 5.10,REV=2004.12.20	SUNWtgnome-tsol-libs 2.6.0,REV=101.0.3.2006.09.05.04.14
SUNWcpcu 11.10.0,REV=2005.01.21.16.34	SUNWlibCf 5.10,REV=2004.01.06	SUNWtls 3.9.5,REV=2005.01.14.19.03
SUNWcpp 5.10,REV=2004.11.23	SUNWlibexif 2.6.0,REV=10.0.3.2004.12.16.15.42	SUNWtlsu 3.9.5,REV=2005.01.14.19.03
SUNWcqhcp 11.10.0,REV=2005.01.17.23.31	SUNWlibms 5.10,REV=2004.11.23	SUNWtltk 3.7.2,REV=10.2004.12.17
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