

Protogate Freeway® Software Version Description (SVD)

DC 900-2023B

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Protogate Freeway® Software Version Description (SVD): DC 900-2023B

by Protogate, Inc.

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This Software Version Description (SVD) identifies the version information of a specific release of the Protogate Freeway® software.

The latest version of this document is always available, in a variety of formats and compression options, from the Protogate World Wide Web server (<http://www.protogate.com/support/manuals>).

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Preface

Purpose of Document

This Software Version Description (SVD) identifies the version information of a specific release of the Protogate Freeway® software.

Intended Audience

This document should be read by anyone who needs version information about a Protogate Freeway software release.

Organization of Document

This document is organized into the following major sections:

Chapter 1

is an overview of this document and of the Protogate Freeway software.

Chapter 2

is a list of other documents referenced by this document.

Chapter 3

describes the Freeway software version.

Chapter 4

includes general information to aid in understanding this document.

Protogate References

The following general product documentation list is provided to familiarize you with the available Protogate Freeway and embedded ICP products. Most of these documents are available on-line at Protogate's website (<http://www.protogate.com/>). Additional information about documents which are specifically referenced by this Software Version Description (SVD) are in Chapter 2 of this document.

General Product Overview Documents

Freeway 1100 Technical Overview

25-000-0419

Freeway 2000/4000/8800 Technical Overview

25-000-0374

| | |
|-----------------------------|-------------|
| ICP2432 Technical Overview | 25-000-0420 |
| ICP6000X Technical Overview | 25-000-0522 |

Hardware Support Documents

| | |
|--|-------------|
| Freeway 500 Hardware Installation Guide | DC-900-2000 |
| Freeway 1100/1150 Hardware Installation Guide | DC-900-1370 |
| Freeway 1200/1300 Hardware Installation Guide | DC-900-1537 |
| Freeway 2000/4000 Hardware Installation Guide | DC-900-1331 |
| Freeway 8800 Hardware Installation Guide | DC-900-1553 |
| Freeway 3100 Hardware Installation Guide | DC-900-2002 |
| Freeway 3200 Hardware Installation Guide | DC-900-2003 |
| Freeway 3400 Hardware Installation Guide | DC-900-2004 |
| Freeway 3600 Hardware Installation Guide | DC-900-2005 |
| Freeway 3110 Hardware Installation Guide | DC-900-2012 |
| Freeway 3210 Hardware Installation Guide | DC-900-2013 |
| Freeway 3410 Hardware Installation Guide | DC-900-2014 |
| Freeway 3610 Hardware Installation Guide | DC-900-2015 |
| Freeway 3112 Hardware Installation Guide | DC-900-2016 |
| Freeway 3212 Hardware Installation Guide | DC-900-2017 |
| Freeway 3412 Hardware Installation Guide | DC-900-2018 |
| Freeway 3612 Hardware Installation Guide | DC-900-2019 |
| Freeway 3114 Hardware Installation Guide | DC-900-2026 |
| Freeway 3214 Hardware Installation Guide | DC-900-2027 |
| Freeway 3414 Hardware Installation Guide | DC-900-2028 |
| Freeway ICP6000R/ICP6000X Hardware Description | DC-900-1020 |
| ICP6000(X)/ICP9000(X) Hardware Description and Theory of Operation | DC-900-0408 |
| ICP2424 Hardware Description and Theory of Operation | DC-900-1328 |
| ICP2432 Hardware Description and Theory of Operation | DC-900-1501 |
| ICP2432 Electrical Interfaces (Addendum to DC-900-1501) | DC-900-1566 |
| ICP2432 Hardware Installation Guide | DC-900-1502 |
| ICP2432B Hardware Installation Guide | DC-900-2009 |

Freeway Software Installation and Configuration Support Documents

| | |
|---|-------------|
| Freeway User Guide | DC-900-1333 |
| Freeway Loopback Test Procedures | DC-900-1533 |
| Freeway Release Addendum: Client Platforms | DC-900-1555 |
| Freeway Message Switch User Guide | DC-900-1588 |
| Freeway Software Requirements Specification (SRS) | DC-900-2021 |

| | |
|---|-------------|
| Freeway Ports, Protocols, and Services (PPS) | DC-900-2022 |
| Freeway Software Version Description (SVD) | DC-900-2023 |
| Freeway Lifecycle Support Plan (LSP) | DC-900-2024 |
| Freeway Security Features User's Guide (SFUG) | DC-908-3004 |
| Freeway Security Target (ST) | DC-908-3005 |

Embedded ICP Software Installation and Programming Support Documents

| | |
|--|-------------|
| ICP2432 User Guide for Digital UNIX | DC-900-1513 |
| ICP2432 User Guide for OpenVMS Alpha | DC-900-1511 |
| ICP2432 User Guide for OpenVMS Alpha (DLITE Interface) | DC-900-1516 |
| ICP2432 User Guide for Solaris STREAMS | DC-900-1512 |
| ICP2432 User Guide for Windows NT | DC-900-1510 |
| ICP2432 User Guide for Windows NT (DLITE Interface) | DC-900-1514 |

Application Program Interface (API) Programming Support Documents

| | |
|---|-------------|
| Freeway Data Link Interface Reference Guide | DC-900-1385 |
| Freeway Transport Subsystem Interface Reference Guide | DC-900-1386 |
| QIO/SQIO API Reference Guide | DC-900-1355 |

Socket Interface Programming Support Documents

| | |
|--|-------------|
| Freeway Client-Server Interface Control Document | DC-900-1303 |
|--|-------------|

Toolkit Programming Support Documents

| | |
|--|-------------|
| Freeway Server-Resident Application (SRA) Programmer Guide | DC-900-1325 |
| OS/Impact Programmer Guide | DC-900-1030 |
| Freeway OS/Protogate Programmer's Guide | DC-900-2008 |
| Protocol Software Toolkit Programmer Guide | DC-900-1338 |
| Protocol Software Toolkit Programmer's Guide (ICP2432B) | DC-900-2007 |

Protocol Support Documents

| | |
|--|-------------|
| ADCCP NRM Programmer Guide | DC-900-1317 |
| Asynchronous Wire Service (AWS) Programmer Guide | DC-900-1324 |
| AUTODIN Programmer Guide | DC-908-1558 |
| Bit-Stream Protocol Programmer Guide | DC-900-1574 |
| BSC Programmer Guide | DC-900-1340 |
| BSCDEMO User Guide | DC-900-1349 |

| | |
|--|-------------|
| BSCTRAN Programmer Guide | DC-900-1406 |
| DDCMP Programmer Guide | DC-900-1343 |
| Military/Government Protocols Programmer Guide | DC-900-1602 |
| N/SP-STD-1200B Programmer Guide | DC-908-1359 |
| NASCOM Programmer's Guide | DC-900-2010 |
| SIO STD-1300 Programmer Guide | DC-908-1559 |
| TIMI Programmer's Guide | DC-900-2011 |
| X.25 Call Service API Guide | DC-900-1392 |
| X.25/HDLC Configuration Guide | DC-900-1345 |
| X.25 Low-Level Interface | DC-900-1307 |

Document Conventions

In this document, the term "Freeway" refers to the Freeway software, regardless of which type of Freeway chassis it is running on.

Revision History

The revision history of the Freeway Software Version Description (SVD), Protogate document DC 900-2023, is recorded below:

Table 1. Revision History

| Revision | Release Date | Description |
|--------------|-----------------|---------------------------|
| DC 900-2023A | October, 2013 | Initial Release |
| DC 900-2023B | September, 2015 | Updated for Freeway 7.1-2 |

Customer Support

If you are having trouble with any Protogate product, call us at 1-858-451-0865 (U.S.) Monday through Friday between 8 a.m. and 5 p.m. Pacific time. You can also fax your questions to us at (858) 451-2865 or (877) 473-0190 any time. Please include a cover sheet addressed to "Customer Service." We are always interested in suggestions for improving our products. You can use the report form in the back of this manual to send us your recommendations.

Chapter 1. Scope

1.1. Identification

This document describes the version of the Protogate Freeway® software shown in table Table 1-1.

Table 1-1. Freeway Version

| | |
|------------------|-----------------|
| Part Number: | SP-902-0002 |
| Freeway Release: | 7.1-2 |
| CD Release: | BN-A |
| Release Date: | 06 August, 2015 |

1.2. System Overview

The Protogate Freeway is a data communication system which connects one or more serial-link channels (Wide-Area-Network, or WAN channels) of various types to one or more IP (Internet Protocol) networks. The Freeway acts as a gateway, providing WAN channel access to clients on the IP network.

The Protogate Freeway software is the comprehensive software suite which runs on all Freeways and completely controls them. The Freeway software is based on the FreeBSD operating system, and has been modified to control one or more Protogate Intelligent Communications Processor (ICP) boards. ICP boards are Protogate-manufactured boards which can be installed into a Freeway chassis, plugged into one or more serial-link channels, and configured to implement a data communications protocol.

1.3. Document Overview

This document describes the version information of a specific release of the Freeway software. This document is not sensitive or private, and may be disseminated as widely as desired, with no restrictions.

Chapter 2. Reference Documents

A full list of Protogate documents is in the Preface Section of this document.

Documents referenced by this Software Version Description (SVD) are listed in Table 2-1.

Table 2-1. Referenced Documents

| Number | Title | Revision | Date |
|----------------|---|-----------------|--------------|
| DI-IPSC-81442A | Data Item Description (DID): Software Version Description (SVD) | A | 11 Jan, 2000 |
| DC-900-1333 | Freeway User's Guide | Q | Sep, 2013 |

Chapter 3. Version Description

3.1. Inventory of Materials Released

All of the SP-902-0002 Freeway software is delivered on a single CD. The version of that CD which this Software Version Description (SVD) describes is shown in table Table 3-1.

Table 3-1. Freeway CD Media Version

| | |
|------------------|-----------------|
| Part Number: | SP-902-0002 |
| Freeway Release: | 7.1-2 |
| CD Release: | BN-A |
| Release Date: | 06 August, 2015 |

3.2. Inventory of Software Contents

The software components installed onto a Freeway by a version BN-A CD are listed in tables Table 3-2 and Table 3-3.

Table 3-2. Software Inventory (Base Software)

| Name - Version | Description |
|--------------------------------------|----------------------------|
| 10-Stable, 04 Jul, 2015 10:00 AM GMT | FreeBSD Operating System |
| Freeway 7.1-2 | Protogate Freeway software |
| OS/Protogate 1.3-6 | ICP board kernel |
| OS/Impact 3.7-3 | Legacy ICP board kernel |
| Protocol Toolkit 5.1-1 | ICP board test protocol |

Table 3-3. Software Inventory (Added Packages)

| Name - Version | Description |
|-----------------------------|---|
| GeoIP-1.6.5_2 | Find the country that any IP address or hostname originates from |
| adns-1.5.0 | Easy to use asynchronous-capable DNS client library and utilities |
| adwaita-icon-theme-3.14.0_1 | GNOME Symbolic Icons |
| apache24-2.4.12 | Version 2.4.x of Apache web server |
| apr-1.5.2.1.5.4 | Apache Portability Library |
| arc-5.21p | Create & extract files from DOS .ARC files |
| arj-3.10.22_4 | Open source implementation of the ARJ archiver |

| Name - Version | Description |
|---------------------------|---|
| at-spi2-atk-2.14.1 | Assisted Technology Provider module for GTK+ |
| at-spi2-core-2.14.1 | Assistive Technology Service Provider Interface |
| atk-2.14.0 | GNOME accessibility toolkit (ATK) |
| autoconf-2.69 | Automatically configure source code on many Un*x platforms |
| autoconf-wrapper-20131203 | Wrapper script for GNU autoconf |
| automake-1.15 | GNU Standards-compliant Makefile generator |
| automake-wrapper-20131203 | Wrapper script for GNU automake |
| bdftopcf-1.0.5 | Convert X font from BDF to PCF |
| bigreqsproto-1.1.2 | BigReqs extension headers |
| bison-2.7.1,1 | Parser generator from FSF, (mostly) compatible with Yacc |
| boehm-gc-7.4.2_3 | Garbage collection and memory leak detection for C and C++ |
| bsdftpd-ssl-1.1.0_4 | Secure FTP client/server with TLS/SSL support |
| ca_root_nss-3.19.1_1 | Root certificate bundle from the Mozilla Project |
| cairo-1.12.18_1,2 | Vector graphics library with cross-device output support |
| cdrtools-3.00_2 | CD/DVD/BluRay and ISO-9660 image creation and extraction tools |
| clamav-0.98.7 | Command line virus scanner written entirely in C |
| cmake-3.2.3_1 | Cross-platform Makefile generator |
| cmake-modules-3.2.3 | Modules and Templates for CMake |
| colord-1.2.4_1 | Manage color profiles to accurately color input/output devices |
| compositeproto-0.4.2 | Composite extension headers |
| cups-client-2.0.3_2 | Common UNIX Printing System: Library cups |
| curl-7.43.0_2 | Non-interactive tool to get files from FTP, GOPHER, HTTP(S) servers |
| cvs-1.20120905_4 | Version control system |
| cyrus-sasl-2.1.26_9 | RFC 2222 SASL (Simple Authentication and Security Layer) |
| damageproto-1.2.1 | Damage extension headers |
| db48-4.8.30.0_2 | The Berkeley DB package, revision 4.8 |
| db5-5.3.28_2 | The Oracle Berkeley DB, revision 5.3 |
| dbus-1.8.16 | Message bus system for inter-application communication |
| dejavu-2.35 | Bitstream Vera Fonts clone with a wider range of characters |
| dialog4ports-0.1.5_2 | Console Interface to configure ports |
| docbook-1.5 | Meta-port for the different versions of the DocBook DTD |
| docbook-sgml-4.5_1 | DocBook SGML DTD |
| docbook-xml-5.0_3 | DocBook XML DTD |
| docbook-xsl-1.76.1_2 | XSL DocBook stylesheets |
| dvd+rw-tools-7.1_1 | DVD burning software |
| encodings-1.0.4_3,1 | X.Org Encoding fonts |
| expat-2.1.0_2 | XML 1.0 parser written in C |
| expect-5.45_1 | Sophisticated scripter based on Tcl/Tk |

| Name - Version | Description |
|-------------------------------|---|
| fixesproto-5.0 | Fixes extension headers |
| font-bh-ttf-1.0.3_3 | X.Org Bigelow & Holmes TTF font |
| font-misc-ethiopic-1.0.3_3 | X.Org miscellaneous Ethiopic font |
| font-misc-meltho-1.0.3_3 | X.Org miscellaneous Meltho font |
| font-util-1.3.1 | Create an index of X font files in a directory |
| fontcacheproto-0.1.3 | Fontcache extension headers |
| fontconfig-2.11.1,1 | XML-based font configuration API for X Windows |
| fontspROTO-2.1.2,1 | Fonts extension headers |
| freetype2-2.6 | Free and portable TrueType font rendering engine |
| gdbm-1.11_2 | GNU database manager |
| gdk-pixbuf2-2.31.2_1 | Graphic library for GTK+ |
| getopt-1.1.6 | Replacement for getopt(1) that supports GNU-style long options |
| gettext-0.19.4 | GNU gettext meta package |
| gettext-runtime-0.19.4 | GNU gettext runtime libraries and programs |
| gettext-tools-0.19.4 | GNU gettext development and translation tools |
| glib-2.42.2 | Some useful routines of C programming (current stable version) |
| gmake-4.1_2 | GNU version of 'make' utility |
| gmake-lite-4.1_1 | Minimalist version of gnu make |
| gmp-5.1.3_2 | Free library for arbitrary precision arithmetic |
| gnome_subr-1.0 | Common startup and shutdown subroutines used by GNOME scripts |
| gnutls-3.3.15 | GNU Transport Layer Security library |
| gobject-introspection-1.42.0 | Generate interface introspection data for GObject libraries |
| graphite2-1.2.4 | Rendering capabilities for complex non-Roman writing systems |
| gtk-update-icon-cache-2.24.27 | Gtk-update-icon-cache utility from the Gtk+ toolkit |
| gtk3-3.14.12 | Gimp Toolkit for X11 GUI (current stable version) |
| harfbuzz-0.9.41 | OpenType text shaping engine |
| help2man-1.43.3_1 | Automatically generating simple manual pages from program output |
| hicolor-icon-theme-0.14 | High-color icon theme shell from the FreeDesktop project |
| icu-55.1 | International Components for Unicode (from IBM) |
| indexinfo-0.2.3 | Utility to regenerate the GNU info page index |
| inputproto-2.3.1 | Input extension headers |
| intltool-0.50.2_1 | Tools to internationalize various kinds of data files |
| iso8879-1986_3 | Character entity sets from ISO 8879:1986 (SGML) |
| jasper-1.900.1_14 | Implementation of the codec specified in the JPEG-2000 standard |
| jbigkit-2.1_1 | Lossless compression for bi-level images such as scanned pages, faxes |
| jpeg-8_6 | IJG's jpeg compression utilities |
| jsoncpp-0.6.0.r2_2 | JSON reader and writer library for C++ |
| kbproto-1.0.6 | KB extension headers |

| Name - Version | Description |
|-------------------------|---|
| lcms2-2.7 | Accurate, fast, and small-footprint color management engine |
| lha-1.14i_6 | Archive files using LZSS and Huffman compression (.lzh files) |
| libICE-1.0.9_1,1 | Inter Client Exchange library for X11 |
| libSM-1.2.2_3,1 | Session Management library for X11 |
| libX11-1.6.2_3,1 | X11 library |
| libXScrnSaver-1.2.2_3 | The XScrnSaver library |
| libXau-1.0.8_3 | Authentication Protocol library for X11 |
| libXaw-1.0.12_3,2 | X Athena Widgets library |
| libXcomposite-0.4.4_3,1 | X Composite extension library |
| libXcursor-1.1.14_3 | X client-side cursor loading library |
| libXdamage-1.1.4_3 | X Damage extension library |
| libXdmcp-1.1.2 | X Display Manager Control Protocol library |
| libXext-1.3.3_1,1 | X11 Extension library |
| libXfixes-5.0.1_3 | X Fixes extension library |
| libXfont-1.4.9,2 | X font library |
| libXfontcache-1.0.5_3 | The Xfontcache library |
| libXft-2.3.2_1 | Client-sided font API for X applications |
| libXi-1.7.4_1,1 | X Input extension library |
| libXinerama-1.1.3_3,1 | X11 Xinerama library |
| libXmu-1.1.2_3,1 | X Miscellaneous Utilities libraries |
| libXp-1.0.3,1 | X print library |
| libXpm-3.5.11_4 | X Pixmap library |
| libXrandr-1.4.2_3 | X Resize and Rotate extension library |
| libXrender-0.9.8_3 | X Render extension library |
| libXt-1.1.4_3,1 | X Toolkit library |
| libXtst-1.2.2_3 | X Test extension |
| libatomic_ops-7.4.0_1 | Atomic operations access library |
| libcheck-0.9.14 | Unit test framework for C |
| libedit-3.1.20150325_1 | Command line editor library |
| libevent2-2.0.22_1 | API for executing callback functions on events or timeouts |
| libffi-3.2.1 | Foreign Function Interface |
| libfontenc-1.1.2_3 | The fontenc Library |
| libgcrypt-1.6.3 | General purpose crypto library based on code used in GnuPG |
| libgpg-error-1.19_1 | Common error values for all GnuPG components |
| libiconv-1.14_8 | Character set conversion library |
| libidn-1.29 | Internationalized Domain Names command line tool |
| libltdl-2.4.6 | System independent dlopen wrapper |
| libpaper-1.1.24.4 | Library providing routines for paper size management |

| Name - Version | Description |
|--------------------------|---|
| libpthread-stubs-0.3_6 | This library provides weak aliases for pthread functions |
| libsmi-0.4.8_1 | Library to access SMI MIB information |
| libtasn1-4.5_1 | ASN.1 structure parser library |
| libtool-2.4.6 | Generic shared library support script |
| libxcb-1.11_1 | The X protocol C-language Binding (XCB) library |
| libxml2-2.9.2_3 | XML parser library for GNOME |
| libxslt-1.1.28_7 | The XSLT C library for GNOME |
| libyaml-0.1.6_2 | YAML 1.1 parser and emitter written in C |
| luit-1.1.1 | Locale and ISO 2022 support for Unicode terminals |
| lynx-2.8.8.2_2,1 | Non-graphical, text-based World-Wide Web client |
| m4-1.4.17_1,1 | GNU m4 |
| mDNSResponder-567 | Bonjour (zero-configuration networking) by Apple |
| mkfontdir-1.0.7 | Create an index of X font files in a directory |
| mkfontscale-1.1.2 | Creates an index of scalable font files for X |
| mod_php56-5.6.10 | PHP Scripting Language |
| mpc-1.0.3 | Library of complex numbers with arbitrarily high precision |
| mpfr-3.1.2_2 | Library for multiple-precision floating-point computations |
| mysql2pgsql-1.2,1 | Convert a MySQL dump to a PostgreSQL dump |
| net-snmp-5.7.3_7 | Extendable SNMP implementation |
| nettle-2.7.1 | Low-level cryptographic library |
| ntp-4.2.8p3 | The Network Time Protocol Distribution |
| openldap-client-2.4.41 | Open source LDAP client implementation |
| openldap-server-2.4.41 | Open source LDAP server implementation |
| p11-kit-0.23.1 | Library for loading and enumerating of PKCS#11 modules |
| p5-DBI-1.633_1 | Perl5 Database Interface, required for DBD::* modules |
| p5-Data-ShowTable-4.6_1 | Perl5 module to pretty-print arrays of data |
| p5-Locale-gettext-1.05_4 | Message handling functions |
| p5-XML-Parser-2.44 | Perl extension interface to James Clark's XML parser, expat |
| pam_ldap-1.8.6_3 | Pam module for authenticating with LDAP |
| pango-1.36.8_1 | Open-source framework for the layout and rendering of i18n text |
| pcre-8.37_1 | Perl Compatible Regular Expressions library |
| perl5-5.20.2_5 | Practical Extraction and Report Language |
| php56-5.6.10 | PHP Scripting Language |
| php56-dom-5.6.10 | The dom shared extension for php |
| php56-gd-5.6.10 | The gd shared extension for php |
| php56-pgsql-5.6.10 | The pgsql shared extension for php |
| php56-session-5.6.10 | The session shared extension for php |
| php56-simplexml-5.6.10 | The simplexml shared extension for php |

| Name - Version | Description |
|----------------------------|---|
| php56-sockets-5.6.10 | The sockets shared extension for php |
| pixmap-0.32.6_1 | Low-level pixel manipulation library |
| pkg-1.5.4 | Package manager |
| pkgconf-0.9.11 | Utility to help to configure compiler and linker flags |
| png-1.6.17 | Library for manipulating PNG images |
| polkit-0.105_5 | Framework for controlling access to system-wide components |
| portupgrade-2.4.14,2 | FreeBSD ports/packages administration and management tool suite |
| postgresql-libpqxx-4.0.1_1 | New C++ interface for PostgreSQL |
| postgresql94-client-9.4.4 | PostgreSQL database (client) |
| postgresql94-server-9.4.4 | The most advanced open-source database available anywhere |
| printproto-1.0.5 | Print extension headers |
| py27-Babel-1.3_2 | Collection of tools for internationalizing Python applications |
| py27-Jinja2-2.7.3 | Fast and easy to use stand-alone template engine |
| py27-MarkupSafe-0.23 | Implements a XML/HTML/XHTML Markup safe string for Python |
| py27-docutils-0.12 | Python Documentation Utilities |
| py27-pygments-2.0.2 | Syntax highlighter written in Python |
| py27-pytz-2014.10.1 | World Timezone Definitions for Python |
| py27-setuptools-17.0 | Python packages installer |
| py27-sphinx-1.2.3 | Python documentation generator |
| python-2.7_2,2 | The "meta-port" for the default version of Python interpreter |
| python2-2_3 | The "meta-port" for version 2 of the Python interpreter |
| python27-2.7.10 | Interpreted object-oriented programming language |
| randrproto-1.4.1 | Randr extension headers |
| readline-6.3.8 | Library for editing command lines as they are typed |
| recordproto-1.14.2 | RECORD extension headers |
| renderproto-0.11.1 | RenderProto protocol headers |
| rsync-3.1.1_3 | Network file distribution/synchronization utility |
| ruby-2.1.6,1 | Object-oriented interpreted scripting language |
| ruby21-bdb-0.6.6_4 | Ruby interface to Oracle Berkeley DB revision 2 or later |
| scons-2.3.0_1 | Build tool alternative to make |
| scrnsaverproto-1.2.2 | ScrnSaver extension headers |
| sdocbook-xml-1.1_1,2 | "Simplified" DocBook XML DTD |
| serf-1.3.8 | Serf HTTP client library |
| shared-mime-info-1.1_1 | MIME types database from the freedesktop.org project |
| shc-3.8.9_1 | Generic script compiler |
| sqlite3-3.8.10.2 | SQL database engine in a C library |
| subversion-1.8.13_2 | Version control system |
| sudo-1.8.13 | Allow others to run commands as root |

| Name - Version | Description |
|-----------------------------|--|
| t1lib-5.1.2_4,1 | Type 1 font rasterization library for Unix/X11 |
| tcl86-8.6.4 | Tool Command Language |
| tcpslice-20140407 | Tool for extracting portions of pcap files |
| tiff-4.0.4 | Tools and library routines for working with TIFF images |
| tk-wrapper-1.1_2 | Shell wrapper for wish (Tk) |
| tk86-8.6.4 | Graphical toolkit for Tcl |
| tkcvs-8.2.3 | Tcl/Tk frontends to CVS and Subversion |
| tkdiff-4.2_1 | Tk frontend for diff(1) |
| trafshow-5.2.3_2,1 | Full screen visualization of network traffic |
| trousers-tddl-0.3.10_7 | The open-source TCG Software Stack |
| unrar-5.21_1,5 | Extract, view & test RAR archives |
| unzip-6.0_6 | List, test, and extract compressed files from a ZIP archive |
| unzoo-4.4_2 | ZOO archive extractor |
| w3m-0.5.3_4 | Pager/text-based WWW browser |
| wireshark-1.12.6 | Powerful network analyzer/capture tool |
| xauth-1.0.9_1 | X authority file utility |
| xbitmaps-1.1.1 | X.Org bitmaps data |
| xcb-proto-1.11 | The X protocol C-language Binding (XCB) protocol |
| xcb-util-0.4.0_1,1 | Module with libxcb/libX11 extension/replacement libraries |
| xcb-util-renderutil-0.3.9_1 | Convenience functions for the Render extension |
| xcmiscproto-1.2.2 | XCMisc extension headers |
| xdg-utils-1.0.2.20130919_1 | Tools to allow all applications to integrate with the free desktop |
| xextproto-7.3.0 | XExt extension headers |
| xeyes-1.1.1 | Follow the mouse X demo |
| xf86bigfontproto-1.2.0 | XFree86-Bigfont extension headers |
| xineramaproto-1.2.1 | Xinerama extension headers |
| xmlcatmgr-2.2_2 | SGML and XML catalog manager |
| xmlcharent-0.3_2 | XML character entities |
| xorg-fonts-truetype-7.7_1 | X.Org TrueType fonts |
| xorg-macros-1.19.0 | X.Org development aclocal macros |
| xprop-1.2.2 | Property displayer for X |
| xproto-7.0.27 | X11 protocol headers |
| xset-1.2.3_1 | User preference utility for X |
| xterm-318 | Terminal emulator for the X Window System |
| xtrans-1.3.5 | Abstract network code for X |
| zip-3.0_1 | Create/update ZIP files compatible with PKZIP |

3.3. Changes Installed

Changes from the previous Freeway software version to this 7.1-2 version (CD BN-A) are listed here.

1. Updated to FreeBSD 10-Stable as of 04 July, 2015 10:00am GMT.
2. Updated webserver to: Apache/2.4.12 (FreeBSD), PHP/5.6.10, OpenSSL/1.0.1o.
3. Updated PostgreSQL database to version 9.4.4.
4. Updated SNMP to net-snmp version 5.7.3_7.
5. Updated the ClamAV antivirus utility programs to version 0.98.7.
6. Added the ability to mount UDF-format CDRoms or DVDs.
7. Added support for IPSEC.
8. Added support for 10Gbit fiber ethernet boards.
9. Added commands to make the DLI/TSI sourcecode compile cleanly.
10. Added creation of DOS-formatted partitions on large Advanced-Format (AF) disks.

3.4. Adaptation Data

Not applicable to this software.

3.5. Related Documents

Related documents are listed in the Preface Section of this document.

3.6. Installation Instructions

Freeway software installation instructions are listed in the Freeway User's Guide, DC-900-1333.

3.7. Possible Problems and Known Errors

At the time of release, the Freeway software version 7.1-2 and other software on CD release BN-A contained no known problems or known errors.

Chapter 4. Notes

This chapter contains any general information necessary to aid in understanding this document.

Table 4-1. Acronym definitions

| Acronym | Definition |
|----------------|-------------------------------------|
| DID | Data Item Description |
| ICP | Intelligent Communication Processor |
| IP | Internet Protocol |
| SVD | Software Version Description |
| WAN | Wide Area Network |

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Customer Report Form

Customer Report Form

We at Protogate are constantly striving to improve our products. If you have any suggestions or problems you would like to report regarding our hardware, software, or documentation, please complete the following form and mail it to us at Protogate, Inc., 12225 World Trade Drive, Suite R, San Diego, CA, 92128, USA. Or contact us via email: <sales@protogate.com>, voice: (858) 451-0865, or fax: (877) 473-0190. Please also include the document title or number and the section and page number, if applicable.

Your Name and Phone Number:

Company:

Address:

Product:

Problem or Suggestion:

Thank you.