Gallagher Command Centre

Software Versions and Software Components

Technical Information Paper

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1 Gallagher Patch and Version Management

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2 Gallagher Command Centre Software

Gallagher Command Centre is managed with a biannual major version release cycle. Incremental minor versions are released as required between major versions. This document covers version 9.20 Release of the Command Centre software. For supported operating systems and databases please see the Command Centre v9.20 Feature Summary.

3 Third Party and Open Source Software Components

Open Source Software License Notice
This product includes software code developed by third parties, which may include software code subject to the GNU General Public License ("GPL"), the GNU Lesser General Public License ("LGPL"), and a variety of additional licenses, including BSD-style licenses. As applicable, the terms of these licenses, and information on obtaining access to the open source code used in this product, are available for free download from:
https://security.gallagher.com/Open-Source-Software

3.1 Gallagher Command Centre

Component Name	Vendor/Project	Current Version
@eslint/config	@eslint/config	2.0.5
	ZephyrRTOS	N/A
	Arm Toolchain for Embedded (ATfE)	22.1.0
	Ninja	
	ZephyrSDK	
	CMake	
	Conan	
	Cppcheck	
	Clang-Tidy	
.NET Core	https://dotnet.microsoft.com/	10.0.11
.NET Hosting (Microsoft. Extensions.Hosting)		8.0.1
.NET Logging (Microsoft. Extensions.Logging)		8.0.1
acsccid	https://sourceforge.net/projects/acsccid/	1.1.0, 1.1.11
Acuant SDK (Snapshell)	https://www.acuantcorp.com	10.19.12.01
alsa-lib	http://alsa-project.org/wiki/Main_Page	1.0.18, 1.2.13

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Component Name	Vendor/Project	Current Version
alsa-utils	http://alsa-project.org/wiki/Download	1.0.11, 1.2.13
Android Jetpack CameraX	https://android.googlesource.com/platform/frameworks/support/+/androidx-main/camera/	1.4.1
AngleSharp	AngleSharp	
ARM CMSIS 1	https://github.com/ARM-software/CMSIS_5/releases	1.3.0
ARM CMSIS 4	https://github.com/ARM-software/CMSIS_4	CMSIS 4.0
ARM CMSIS 5.6	https://github.com/ARM-software/CMSIS_5/releases	
ARM CMSIS 5.7	https://github.com/ARM-software/CMSIS_5/releases	5.7.0
ARM CMSIS 6.2	https://github.com/ARM-software/CMSIS_6/tree/v6.2.0	6.2.0
ARM Trusted Firmware A	https://developer.arm.com/Tools%20and%20Software/Trusted%20Firmware-A	2.10.5
ASP.NET Core	https://github.com/aspnet/Home	2.3.12
Aspire.Npgsql	https://github.com/dotnet/aspire	9.0.0
at91bootstrap	https://www.linux4sam.org/bin/view/Linux4SAM/AT91Bootstrap	3.8.7 (forked from master)
AutoFixture.AutoMoq	https://github.com/AutoFixture/AutoFixture	4.8.0
AWS Toolkit for Azure DevOps	AWS	1.17.0
Blazer Hybrid WPF Component (Microsoft.AspNetCore.Components.WebView.Wpf)	https://github.com/dotnet/aspnetcore	8.0.100
boost	https://github.com/boostorg/boost	1.91
BouncyCastle	https://www.bouncycastle.org/csharp/	2.6.1
busybox	https://busybox.net/	1.15.0, 1.37.0
bzip2	https://www.sourceware.org/bzip2/	1.0.2
c-ares	https://c-ares.haxx.se/download	1.34.6
cairo	https://www.cairographics.org/	1.6.4
CardScan SDK	https://www.cardscan.com/	9.0.0.207
ccid	https://ccid.apdu.fr/files	1.5.2
Com.google.android.play:integrity	Google Play Integrity	1.5.0
cramfs		20081121
CsvHelper	https://joshclose.github.io/CsvHelper	33.0.1
DbgHelp	https://www.microsoft.com/	10.0.26100.7705
dev (Device files for a small embedded system)		1.1
dhcpcd	https://roy.marples.name/projects/dhcpcd	10.2.4
DirectShow.NET	http://directshownet.sourceforge.net/	2.1

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Component Name	Vendor/Project	Current Version
Docker image public.ecr.aws/sam/build-dotnet8	https://github.com/aws/aws-sam-build-images/blob/develop /build-image-src/Dockerfile-dotnet8	1.143.0-20250822194407
e2fsprogs	https://github.com/tytso/e2fsprogs	1.41.4
elftosb2	http://repository.timesys.com/buildsources/e/elftosb-10.12.01/	2.6.1, 10.12.01
expat	https://libexpat.github.io/	1.95.8, 2.7.4
fluent-bit	https://github.com/fluent/fluent-bit	4.2.4 (4ced7c498932e41bf54ede17ff2451ede0851aab)
FluentValidation	https://docs.fluentvalidation.net	
fmt	https://github.com/fmtlib/fmt	12.1.0
fontconfig	https://www.freedesktop.org/wiki/Software/fontconfig/	2.4.2
FreeRTOS	https://www.freertos.org/RTOS.html	10.5.1
FreeRTOS Kernel	https://www.freertos.org/RTOS.html	10.4.3
freetype	https://www.freetype.org/	2.3.9, 2.13.3
gdb	https://www.gnu.org/software/gdb/	6.6
glib	https://developer.gnome.org/glib/	2.18.1
glib2	https://launchpad.net/ubuntu/+source/glib2.0	2.12.11
Google.Protobuf	https://protobuf.dev/	3.31.1
gRPC	https://grpc.io/	2.46.6 (Core), 2.83.0 (AspNetCore)
gstreamer	https://gstreamer.freedesktop.org/	0.10.25
gst-plugins-base	https://gitlab.freedesktop.org/gstreamer/gst-plugins-base	0.10.12, 0.10.22, 0.10.25
gst-plugins-good	https://gitlab.freedesktop.org/gstreamer/gst-plugins-good	0.10.5, 0.10.16
gst-plugins-ugly	https://gitlab.freedesktop.org/gstreamer/gst-plugins-ugly	0.10.11
gtest-release	https://github.com/google/googletest	1.17.0
HTML Agility Pack	https://html-agility-pack.net/	1.11.42
i18next	https://github.com/i18next/i18next	24.2.1
i18next-browser-languagedetector	https://github.com/i18next/i18next-browser-languagedetector	8.0.2
i18next-http-backend	https://github.com/i18next/i18next-http-backend	3.0.1
Imx-kobs	https://github.com/nxp-imx/imx-kobs/archive/ff13a99a22aa73cca0e09a33c2ebb6a94ad698da	ff13a99a22aa73cca0e09a33c2ebb6a94ad698da
IndexRange	https://github.com/bgrainger/IndexRange	1.0.3
IPWorks SNMP	https://www.nsoftware.com/ipworks/snmp/download.aspx	20.0.7875
J-Link Software Package	https://www.segger.com/downloads/jlink/	9.64

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Jacques Call Control Protocol High Level Interface	https://www.jacques.com.au	7.97.21
json-c	https://s3.amazonaws.com/json-c_releases/releases/index.html	0.18
JSON for Modern C++	https://github.com/nlohmann/json/releases	3.12.0
Kobs-ng	https://openwrt.org/packages/pkgdata/kobs-ng	0.0.1
libatomic_ops	https://github.com/bdwgc/libatomic_ops	7.8.4
libbenchmark (Google Benchmark Library)	https://github.com/google/benchmark	1.9.1
libconfuse	https://github.com/libconfuse/libconfuse/releases/tag/v3.3	3.3
libevdev	http://www.freedesktop.org/software/libevdev	1.13.1
libevent	https://libevent.org/	2.0.20-stable, 2.1.12-stable
libffi	https://sourceware.org/libffi/(https://github.com/libffi/libffi)	3.4.8
libglib2	https://gitlab.gnome.org/GNOME/glib/-/releases (https://download.gnome.org/sources/glib/)	2.86.2
libgpiod	https://www.kernel.org/pub/software/libs/libgpiod	1.6.5
libite	https://github.com/troglobit/libite/releases/download/v2.6.1	2.6.1
libjpeg	http://www.ijg.org/files	9f
libmnl	https://netfilter.org/projects/libmnl/index.html	1.0.5
libnftnl	https://netfilter.org/projects/libnftnl/index.html	1.3.0
libnl	https://github.com/thom311/libnl	3.11.0
liboil	https://liboil.freedesktop.org/wiki/	0.3.16
libopenssl	https://www.openssl.org/	3.5.6
libopenssl-fips-prebuilt	https://www.openssl.org/	3.0.10
libopenssl-fips-prebuilt-ggl102	https://www.openssl.org/source	2.0.13
libpng	http://www.libpng.org/pub/png/libpng.html	1.2.8, 1.6.57
libSRTP	https://github.com/cisco/libsrtp	2.4.2
libtermcap	http://www.rpmfind.net/linux/rpm2html/search.php?query=libtermcap.so.2https://pkgs.org/download/libtermcap.so.2	2.0.8
libtomcrypt	https://github.com/libtom/libtomcrypt/tree/1.17; https://www.libtom.net/	V1.17
libtool	https://www.gnu.org/software/libtool/	2.4.2
libuev	https://github.com/troglobit/libuev/releases/tag/v2.4.1	2.4.1
libusb	https://github.com/libusb/libusb/releases	1.0.20, 1.0.27
libusb	https://libusb.info/	1.0.29
LibVLCSharp	https://www. nuget.org/packages/LibVLCSharp	3.4.9

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Component Name	Vendor/Project	Current Version
LibVLCSharp.WinForms	https://www.nuget.org/packages/LibVLCSharp.WinForms	3.4.9
libxcrypt	https://github.com/besser82/libxcrypt	4.5.2
libxml2	http://xmlsoft.org/news.html	2.6.28
libyaml	https://pyyaml.org/download/libyaml/	0.2.5
libzlib	https://www.zlib.net/	1.3.2
lighthttpd	https://www.lighttpd.net/	1.4.32, 1.4.33
Linux Kernel	https://www.linuxfoundation.org/projects/linux/	6.1.136
Linux Kernel	https://cdn.kernel.org/pub/linux/kernel/v6.x	6.6.137
Linux Kernel	https://git.kernel.org/pub/scm/linux/kernel/git/stable/linux-stable-rc.git/?h=linux-2.6.31.y	2.6.31
Linux kernel +NXP BSP	https://github.com/Freescale/linux-fslc	6.1.141
liteDB	https://www.litedb.org/	5.0.21
lldpd	https://github.com/lldpd/lldpd	1.0.20
logrotate	https://github.com/logrotate/logrotate	3.22.0
LVM	https://wiki.debian.org/LVM	2.02.95
lzo	http://www.oberhumer.com/opensource/lzo/	2.03
MagicScaler	https://github.com/saucecontrol/PhotoSauce/releases	0.15.0
MailKit	https://github.com/jstedfast/MailKit	3.1.1
MCUXpresso Software Development Kit (NXP M4 peripheral library)	https://github.com/nxp-mcuxpresso/mcux-sdk/tree/main	2.9
memtester	http://pyropus.ca/software/memtester/old-versions	4.5.1
Microsoft Authentication Library	Microsoft	4.74.1
Microsoft Edge WebView2	https://developer.microsoft.com/en-us/microsoft-edge/webview2/	1.0.864.35
Microsoft Practices CompositeUI	https://docs.microsoft.com/en-us/previous-versions/aa538874%28v%3dmsdn.10%29	1.0.51206
MimeKit	https://github.com/jstedfast/MimeKit	3.1.1
MinVer	https://github.com/adamralph/minver	4.3.0
mmc-utils	https://git.kernel.org/pub/scm/utils/mmc/mmc-utils.git/	1.0
Moq	https://github.com/moq/moq4	4.18.4
Morpho DESFire Key Derivation		1.2.1.4
MorphoKit	https://www.idemia.com/morphokit	5.49.1.3
Morpho MACI	https://www.biometric-terminals.com/	6.6.4.3
mqtt-lib-cli	https://github.com/LabOverWire/mqtt-lib	0.38.2
MSBuild.StructuredLogger	https://github.com/KirillOsenkov/MSBuildStructuredLog	2.2.386

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Component Name	Vendor/Project	Current Version
msgpack-c	https://github.com/msgpack/msgpack-c/	6.1.0
msw	https://github.com/mswjs/msw	2.4.11
msw-storybook-addon	msw-storybook-addon	3.0.0
mtd	http://www.linux-mtd.infradead.org/	2.2.1
mtd-utils	http://git.infradead.org/mtd-utils.git	1.0, 2.2.1
NATS.Net	https://github.com/nats-io/nats.net	1.1.8
ncurses	https://www.gnu.org/software/ncurses/	5.3
NetAdvantage for Windows Forms 2008 Volume 1 CLR 2.0	https://infragistics.com	8.1.20081.2085
Newtonsoft.Json	https://www.newtonsoft.com/json	13.0.4
next.js	https://github.com/vercel/next.js	14.2.28 (Diagnostics Service, ARW)
nftables	https://netfilter.org/projects/nftables/index.html	1.1.4
nghttp2	https://github.com/nghttp2/nghttp2	1.64.0
nginx	nginx (https://nginx.org/en/download.html)	1.30.4
NLog	https://nlog-project.org/	5.5.1
NLog.Web.AspNetCore	https://github.com/NLog/NLog.Web | https://nlog-project.org/	5.5.0
ntp	http://www.ntp.org/ (https://www.ntp.org/documentation/)	4.2.8p18
Nx	Nx Monorepo Tooling	22.7.4
NxpRdLib	NXP Semiconductors	15.2.0.2020
NxpReaderLib	https://www.nxp.com/design/design-center/development-boards-and-designs/nfc-reader-library-software-support-for-nfc-frontend-solutions:NFC-READER-LIBRARY	v7.3.0
NXP Plug and Trust Middleware	https://github.com/NXP/plug-and-trust	04.07 (04.05.03 for Controller 7000)
NXP SCU firmware	https://www.nxp.com/design/design-center/software/embedded-software/i-mx-software/embedded-linux-for-i-mx-applications-processors:IMXLINUX (SCU firmware is part of SCFW Porting Kit.)	1.16.0
OPC AE Stubs	OPC Foundation	1.10.108.41
OPC.UA-.NET-Legacy	https://github.com/OPCFoundation/UA-.NET-Legacy	1.03.342 (+ security fixes up to August 6, 2022)
OpenJPEG	http://www.openjpeg.org/	2.5.4
openssh	https://www.openssh.com/	10.4p1
OpenSSL	https://www.openssl.org/	1.0.2, 3.5.6 with FIPS 3.1.2
OpenTelemetry .NET	https://github.com/open-telemetry/opentelemetry-dotnet	1.15.3
OPOS for .NET	http://monroecs.com/posfordotnet/opos_dotnet.htm	1.14.001

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Component Name	Vendor/Project	Current Version
OP-TEE	https://www.trustedfirmware.org/projects/op-tee/	4.7
Oracle Data Provider for .NET	https://www.oracle.com/database/technologies/appdev/dotnet/odp.html	2.112.3
pango	https://pango.gnome.org/	1.20.5
pcre	http://www.pcre.org/ (https://sourceforge.net/projects/pcre/files/)	6.3
pcre2	https://github.com/PCRE2Project/pcre2/	10.47
pcsc-lite	https://pcsclite.apdu.fr/	1.8.14, 2.1.0
PDF Rasterizer	http://www.nuget.org/packages/Apitron.PDF.Rasterizer	3.0.154.0
pixman	https://gitlab.freedesktop.org/pixman/pixman	0.15.12
PlayIntegrity	Google Play Integrity	1.70.0.3882
poco	https://pocoproject.org/	1.14.2
popt	https://github.com/devzero2000/POPT	1.19
posthog-js	posthog	1.2571.0
PyJWT	PyJWT	2.8.0
qt	https://github.com/wkhtmltopdf/qt.git	4.8.2, 4.8.7
react-i18next	https://github.com/i18next/react-i18next	15.4.0
React.js	https://react.dev/	18.2.0 (Diagnostics), 18.3.1 (ccweb)
Reactive Extensions	https://github.com/dotnet/reactive	6.1.0
Redux	https://github.com/reduxjs/redux	4.2.0
Redux Toolkit	https://github.com/reduxjs/redux-toolkit	1.8.5
RootBeer	Rootbeer	0.1.1
RPMsg-Lite	https://github.com/NXPmicro/rpmsg-lite	3.1.1
Rules Engine	https://github.com/microsoft/RulesEngine	6.0.0
Salto JustIN Mobile SDK	Salto	4.1.0
SautinSoft RTF to HTML .NET	https://www.sautinsoft.com/products/rtf-to-html/	7.6.6.17
Secugen	https://secugen.com/products/sdk/	4.5.1 (old package) (2.4.0.0 File)
SerialQueue	https://github.com/borland/SerialQueue	2.1.0
Serilog	https://serilog.net/	4.3.0
Serilog (v4)		4.2.0
Serilog File Sink (Serilog.Sinks.File)		6.0.0
Serilog.NET Logging Adaptor (Serilog.Extensions.Logging)		8.0.0
setup-deno	Denoland	V2.0.3

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Component Name	Vendor/Project	Current Version
skell		1.18
spdlog	https://github.com/gabime/spdlog/	1.17.0
SQL Client (Microsoft.Data.SqlClient)		5.2.2
sqlite	https://www.sqlite.org/	3.51.2
Stimulsoft Reports.Wpf	https://www.stimulsoft.com/en/downloads/reports	2024.1.3
STM32F10x StdPeriph_Driver Library		3.3.0
STM32F4xx StdPeriph_Driver Library	https://github.com/STMicroelectronics/stm3215xx_hal_driver/releases/tag/v1.0.6	V1.0.3
STM32F4xx StdPeriph_Driver Library		v1.6.1
Swashbuckle.AspNetCore	https://github.com/domaindrivendev/Swashbuckle.AspNetCore	9.0.3
Syntera.BridgeApps	Datacard - Syntera	1.2.0
syslog-ng	https://www.syslog-ng.com/products/open-source-log-management/	4.8.3
System.CommandLine	System.CommandLine	
System.Interactive	https://github.com/dotnet/reactive/releases	7.0.1
TBarCode SDK	https://www.tec-it.com/en/software/barcode-software/tbarcode/overview/Default.aspx	11.17.4
TestableIO System.IO.Abstractions	https://github.com/TestableIO/System.IO.Abstractions	22.2.0
tomfastmath	https://github.com/libtom/tomsfastmath; https://www.libtom.net/	v0.12
tslib	http://www.tslib.org/	1.0
TwainDSM	https://github.com/twain/twain-dsm / Twain Working Group	2.4.0
U-Boot	https://www.denx.de/wiki/U-Boot/ (https://releasealert.dev/github/u-boot/u-boot)	2017.03 (forked from 2017.03 tag) for Controller 6000, 2022.07-rc5 - for Controller 7000
undici	https://github.com/nodejs/undici	6.19.5
utf8proc	https://github.com/JuliaStrings/utf8proc	2.10.0
	MQTT.js	5.15.2
util-linux	https://cdn.kernel.org/pub/linux/utils/util-linux/v2.40	2.40.2
VaultIC library (interface to Vault chip)		1.0.10
VideoLAN.LibVLC.Windows	https://www.videolan.org/	3.0.11
VSView	https://www.componentsource.com/product/componentone-studio-activex	8.0.20202.183

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Component Name	Vendor/Project	Current Version
watchdogd	https://github.com/troglobit/watchdogd/releases/tag/4.0	4.0
Websocket.Client	Websocket.NET.client	
Windows Template Library	https://sourceforge.net/projects/wtl/	10.0.10320
WPA_Supplicant	https://w1.fi/wpa_supplicant/	2.10
WPF Toolkit	https://archive.codeplex.com/?p=wpf	February 2010
zlib	https://www.zlib.net/	1.2.3, 1.3.1
zstd	https://github.com/facebook/zstd/	1.5.7

3.2 iOS Mobile Client

Component Name	Vendor/Project	Current Version
CocoaAsyncSocket	https://github.com/robbiehanson/CocoaAsyncSocket	7.6.5
CocoaHTTPServer	https://github.com/robbiehanson/CocoaHTTPServer	2.3
DAKeyboardControl	https://github.com/danielamitay/DAKeyboardControl	2.4.0
FMDB	https://github.com/ccgus/fmdb	2.7.12
Grabba driver for iOS	https://grabba.com	1.1.7
MGSwipeTableCell	https://github.com/MortimerGoro/MGSwipeTableCell	1.6.9
ReactiveCocoa	https://github.com/ReactiveCocoa/ReactiveCocoa	2.0
RoutingHTTPServer	https://github.com/mattstevens/RoutingHTTPServer	1.0.0
RxSwift	https://github.com/ReactiveX/RxSwift	6.7.1

3.3 iOS Mobile Connect

Component Name	Vendor/Project	Current Version
Nok Nok SDK	https://www.noknok.com	5.2.1
RxSwift	https://github.com/ReactiveX/RxSwift	6.7.1

3.4 Android Mobile Client

Component Name	Vendor/Project	Current Version
com.google.android.gms:play-services-vision		20.1.3
io.reactivex:rxjava	https://github.com/ReactiveX/RxJava	1.3.8
joda-time:joda-time	https://www.joda.org/joda-time/	2.13.0
org.slf4j:slf4j-api		1.7.30

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3.5 Android Mobile Connect

Component Name	Vendor/Project	Current Version
Android Firebase SDK - Messaging	https://github.com/firebase/firebase-android-sdk/tree/main	24.1.0
BouncyCastle Java	https://www.bouncycastle.org	1.85.2
com.annimon:stream		1.2.1
com.github.tony19:logback-android		2.0.0
com.google.code.gson:gson		2.8.6
io.reactivex:rxjava	https://github.com/ReactiveX/RxJava	1.3.8
Nok Nok SDK	https://www.noknok.com	5.2.1
org.slf4j:slf4j-api		1.7.30

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