



Killer

Software installation for Windows

Release Notes

August 17, 2020

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Revision history

Revision	Date	Description
A	Sep 15, 2016	Initial Release
B	Nov 02, 2016	Updated Maintenance Release
C	Nov 09, 2016	Fixed breaking out Domains from non-browsers
D	Nov 16, 2016	Don't show Wifi Analyzer on Ethernet, fix CH characters in domain detection
E	Nov 18, 2016	Additional fix to CH characters in domain detection
F	Dec 19, 2016	Updated 11ac drivers, Bug fixes
G	Feb 02, 2017	Updated 11ac drivers, Bug fixes
H	Feb 20, 2017	Updated 11ac drivers, resolving issue seen in a small number of platforms that would cause WiFi drops.
J	Apr 18, 2017	Updated 11ac drivers, Updated Ethernet Drivers, fixes to Rivet Filtering Engine, Application, installer.
K	Jun 07, 2017	Fix IPv6 issues with CNN.com/FileVoyager.com, German Language fixes, Game Detection fixes, Updated Ethernet driver for RS1+RS2 WHQL. Fix/re-add Modify/Repair to installation.
L	Jun 22, 2017	Updated 11AC drivers to 12.0.0.312
M	Jul 03, 2017	Updated 11AC Drivers, Killer Doubleshot Pro fix, game detection updates.
N	Aug 22, 2017	Change Installer name for Microsoft JS Tool. Fix KillerDiagnostics FR. Updated 11AC Wifi driver., KCC Improvements, Doubleshot IPv6 fixes, ESET Co-existence fix.
O	Sep 28, 2017	Killer Control Center fixes, Bandwidth Estimator fixes, 11AC WiFi driver update, Ethernet driver update.
P	Nov 12, 2017	Reduced/Removed DPC interrupts from Rivet Filtering Engine driver, RS2+RS3 drivers for Ethernet, 11AC WiFi
Q	Nov 20, 2017	Fix COM initialization Killer Network Service crash, fixed connecting to L2TP/IPsec VPNs.
R	Dec 27, 2017	Advanced Stream Detect optimizations.
S	Jan 11, 2018	Added Killer 1550 support.
T	Jan 26, 2018	Detection Updates, Killer wireless driver updates, Accessibility fixes, VPN fixes
U	Jan 29, 2018	Hotfix: Issues with device discovery for some Killer Wireless devices.
V	Feb 16, 2018	Installer upgrade fixes, Proper WiFi mode shown for 1525/1435/1535 5Ghz in KCC, Updated 1535/1435 driver.
W	Mar 09, 2018	Accessibility changes. Fixed issue on a fast system boot that could cause traffic to not be seen in Killer Control Center.

X	Apr 03, 2018	Updated 1550 WLAN driver
Y	Jun 04, 2018	Wireless xTend UWD (Windows 10 1803) release.
Z	Jun 15, 2018	Fixed Rivet Filtering Engine Bugchecks (D1): RfeInsertFlowContextIntoPortTbl, flow_tagProcIdForSpc, rfeGetDeviceIdFromV4, Fixed P1 traffic always showing as Upload traffic.
AA	Jun 28, 2018	Changed the way the installer is stopping and removing Killer Network Service. Added removal of xTend services on uninstall.
AB	July 11, 2018	Updated 1550 drivers, updated 1435/1535 drivers, adjusted installer custom actions for UWD uninstall. Wireless xTend improvements.
AC	Aug 07, 2018	Updated 1435/1535 WLAN driver. Updated 1550 WLAN driver. RS3+RS4 WHQL Ethernet driver.
AD	Sep 11, 2018	Updated Killer 1550 WLAN driver, Rivet Filtering Engine/Killer Software Component driver, Killer E2X00 driver, Killer 1435/1535 driver, Installer failure to uninstall Killer Network Software component/extension drivers.
AE	Sep 21, 2018	Fixed issue with Bandwidth Test function.
AF	Jan 08, 2019	Update to Killer Software 2.0. Updates to 1435/1535 driver, 1550 driver, inclusion of E3000 and E2500v2 drivers.
AG	Feb 01, 2019	Updated WiFi drivers, Updated Game Detections. Added persistence of settings on upgrade. New Bandwidth Measurement.
AH	Mar 12, 2019	Update Killer 1550 driver. Update Killer 1435/1535 Driver. Gamefast improvements. Enhancements to KCC Bandwidth Test.
AI	Apr 05, 2019	Killer Control Center improvements. Resolved BSOD reported from MSFT Dashboard.
AJ	May 07, 2019	Updates to Killer Control Center UI, Localization fixes, Updated 1435, 1535, 1550/1650 drivers.
AK	Jun 04, 2019	Update KCC to disable Doubleshot if Hotspot gets enabled, Fix KCC issue with being able to enter SSID/Password field when in 'extend current network' mode. Add KCC App Detect Whitelist version. Fix issues causing component driver to not show as Declaritive. Update Killer 1550/1650 WLAN Driver. Update E3000/E2600 Driver.
AL	Jun 24, 2019	Fix NORSK (from nn to nb), Fix speedtest issue that would occur when .net expected different number format than what was returned from test result. Fix issue in KCC that would cause higher CPU utilization. Update 1550/1650 driver.
AM	Jul 02, 2019	Updated 1550/1650 driver.

AN	Aug 02, 2019	Updated Advanced Stream Detect Rules, Adjusted Bandwidth setting notifications. Update E3000/E2600 driver.
AO	Sep 10, 2019	Updated Killer 1550/1650 drivers. Updated Killer 1435/1535 drivers.
AP	Oct 11, 2019	Updated Killer Intelligence Engine – more events and new infrastructure. Addressed CVE-2019-15661, CVE-2019-15662, CVE-2019-15663, CVE-2019-15664, CVE-2019-15665. Added KIE Toast Notification option. Settings page and Bandwidth Testing optimizations. Advanced Stream Detect optimizations.
AQ	Nov 01, 2019	Update Killer 1550/AX1650 driver.
AR	Dec 07, 2019	Update 1535/1435 Driver. Update Killer 1550/AX1650 driver. Update E3000/E3100G driver. Add support for E3000. KCC UI adjustments.
AS	Dec 12, 2019	Fixed installation of 1435/1535 driver.
AT	Jan 05, 2020	Added Intelligence Engine AP suggestion notifications, Add Extreme Game Mode auto-bandwidth option.
AU	Feb 21, 2020	Enabled KCC2.x for more network adapters. Update E3000 driver. Update 1550/1650 driver.
AV	Feb 25, 2020	Updated KCC on Microsoft Store to address Exception that could occur when selecting a KIE AP suggestion auto-connect.
AW	Mar 03, 2020	Adjust KCC display errors of ‘Recommend Actions’ on older Killer network adapters. Enhance GameFast page.
AX	Mar 15, 2020	Updated E3100 Driver. Adjust Smart Access Point Selection to automatically switch to better AP’s on the same network (same SSID).
AY	Mar 28, 2020	Updated Killer 1550/1650 driver.
AZ	Apr 11, 2020	Fix KCC launch from start menu. Improve service shutdown speed on fast shutdown.
BA	May 15, 2020	Rework Installer packaging.
BB	Jun 19, 2020	Updated 1550-1650 Driver. Added KCC store update check with service mismatch. Idle KCC performance enhancements. Fixed errors in Japanese and Russian localizations.
BC	Aug 17, 2020	Updated 1550-1650 driver. Add LicenseAttribution.txt. UI open position can be off screen. Fix Youtube detection in Google Chrome browser.

1 Purpose

The software package is a INF installer to install Killer drivers and software. The software package includes Ethernet driver, WLAN host driver, WLAN firmware binary, Killer Prioritization Engine WFP driver, and Killer Network service binaries and associated software via DCH Extension and Component driver.

If applicable, a separate Bluetooth Installation is also supplied as taken directly from QCA with no additional modifications.

1.1 Identification

This release is:	Killer Control Center Suite
The release version is:	2.3.1489

Killer Control Center:	Obtained from Microsoft App Store
KCC 2.X Version:	2.3.3303.0

1.2 Filename's and MD5 Checksums

Filename:	KillerPerformanceSuite_2.3.1489_UWD_x64.exe
MD5 Checksum:	38f9a3b7ba1acd9c2e62a5b950d5cf84

1.2 Additional Considerations

The Killer Control Center application from the Microsoft Store will automatically enable or disable features as appropriate based on the capabilities of your installed Killer Hardware. Killer E3000 and Killer 1550 contain Killer Intelligence Engine and GameFast. Previous hardware will not show these features within Killer Control Center.

2 Supported Hardware and Software

The following hardware is supported in this release:

OS 64 bit	Ethernet	11AC WLAN 2.4/5Ghz	11AC WLAN 2.4/5Ghz	11AX WLAN 2.4/5Ghz
	Product Name			
Windows 10	Killer E2200	Killer 1525	Killer 1550	Killer 1650w
	Killer E2400	Killer 1435	Killer 1550i	Killer 1650x
	Killer E2500	Killer 1535	Killer 1550s	Killer 1650i
	Killer E2500v2/E2600			Killer 1650s
	Killer E3000			Killer AX500
	Killer E3100G			
	Killer E3100			
	Killer E3100U			

NOTE: Windows 10 current supported RS5, 19H1, 19H2, 20H1

3 Installation

The software package includes a single installer for all Killer products for Windows 10.

3.1 Installation options

The software package supports the following command line functions

Function	Command Line	Details
Silent Install	setup.exe /s /v” /qn /norestart”	Used for unattended Install without UI interaction.
Extract Drivers	setup.exe /v”EXTRACTDRIVERS=<path>” ex: setup.exe /v”EXTRACTDRIVERS=c:\killerdrivers”	Used to extract drivers from package. Note: This is only supported on FRESH or CLEAN system without current software installation present.
Help	setup.exe /?	Used to display help message to show all possible commands

3.2 Driver Version

The following table shows the driver version for the Killer DCHU driver components and included base drivers.

OS	E3100/E3100 X Ethernet	1550/1650 WLAN	Killer Extension	Killer Component
Windows 10	1.0.1.5	21.110.1.1	2.3.3303.0	2.3.3303.0

3.3 Killer Control Center UWP Version

The following table shows the Killer Control Center UWP app version.

	KCC 2.0 UI
Killer Control Center from Microsoft Store	2.3.3303.0

4 Testing

This release has gone through a formal Rivet Networks testing cycle. The software is certified by Microsoft WHCK and all driver binaries are WHQL signed.

5 Known Issues

ID	Component	Description
CIE-61	Killer Control Center	SpeedTest is stopping at Upload portion on certain servers: Cause: Errors occurring on certain servers during initialization of upload test.

6 Fixed Issues

- **Version 2.3.1489**

ID	Component	Description
CIE-2	Killer Control Center	Default UI / Window Location Can Open Partially Off Screen
CIE-67	Killer Prioritization Engine	Youtube Detection no longer working in Google Chrome Browser
N/A	1550/1650 Driver	Updated to driver version 21.110.1.1

- **Version 2.2.1471**

ID	Component	Description
N/A	Killer Control Center	Added function to pull update from Microsoft Store automatically if Service and Application are not compatible.
1806	Killer Control Center	Optimized CPU utilization when KCC is idle in certain scenarios.
1801	Killer Control Center	Addressed text cutoff/errors in Japanese and Russian language.
WIFI-38633	Killer 1550/1650 Driver	[CML-H][AX200/AX201][19H2] WLAN fail connect to AP with Encryption Type by TKIP with 21.90.0.9 PV, while it pass with EB 21.90.0.5
N/A	Killer 1550/1650 Driver	Updating to latest 20H1 WDK (aligned to 20H1 RTM)

- **Version 2.2.1462**

ID	Component	Description
N/A	Installer	Fix issue with E2200 detection

- **Version 2.2.1460**

ID	Component	Description
N/A	Installer	Add E3100X ID to Installer Hardware Lock
N/A	KillerNetworkExtension	Add E3100X ID to Extension driver
N/A	Killer AP Selector	Remove auto-connect on resume from sleep to non-auto join network profiles

- **Version 2.2.1444**

ID	Component	Description
1776	Killer Analytics Service	[Analytics] Event Viewer showing a shut down error during Fast Shutdown
1776	Killer Analytics Service	Applied same shut down fix to Killer Network Service
N/A	Killer Control Center	Fixed issue causing Killer Control Center to not show main window when called from Start Menu shortcut.

- **Version 2.2.1440**

ID	Component	Description
WIFI-35371 WIFI-36368	Killer 1550/1650 Driver	Galaxy-S10/iphone-11 can't connect to mobile hotspot
WIFI-35966	Killer 1550/1650 Driver	Empty scan list after resume from sleep, uCode assert EventID 5002
WIFI-35922	Killer 1550/1650 Driver	Device yellow bang during run-in test

WIFI-35961	Killer 1550/1650 Driver	Running AMT_043, the SUT cannot connect to WIFI in KVM after waking from S4
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• **Version 2.2.1438**

ID	Component	Description
N/A	E3100 Driver	Updated Driver. Enables auto negotiation down to 1Gbps on non-compatible Multi-Gig switches.
N/A	Killer Intelligence Engine	Enabled auto switching (roaming) AP's that are part of the same network (same SSID).
N/A	Installer	Updated MSI Vendor detection algorithm to properly detect both "MSI" and "Micro-Star International Co., Ltd."

• **Version 2.2.1433**

ID	Component	Description
N/A	Killer Control Center	Adjust style on GameFast page.
N/A	Killer Control Center	Corrected incorrectly flagging 'Recommended Actions Exist' on older Killer ethernet and wireless hardware.

• **Version 2.2.1430 - Hotfix**

ID	Component	Description
N/A	Killer Control Center	Updated KCC on Microsoft Store to address Exception that could occur when selecting a KIE AP suggestion auto-connect..

• **Version 2.2.1430**

ID	Component	Description
N/A	Killer Control Center	Refined KCC look and feel in multiple areas.
N/A	Killer Control Center	Enabled Killer Control Center 2.x UI version on all current supported Killer network adapters.
N/A	Killer E3000/E3100G driver	Updated to latest 10.039.0212.2020 WHQL driver.
N/A	Killer E22/24/25 driver	Fix BSOD seen in fast startup cycling on particular platform.
N/A	Killer E3100 driver	Update to version 1.0.0.12 WQHL driver
N/A	Killer Network Component	Update string conversion in Killer Analytics Service which could lead to higher than expected CPU and power consumption (~0.20%)
N/A	AX500 Driver	Updated to latest AX500 package, include in general release.
N/A	Killer 1550/1650 Driver	Update to latest Killer 1550/1650 driver.

- **Version 2.2.1403**

ID	Component	Description
N/A	Killer Intelligence Engine	Fixed installation of 1435/1535 driver version 12.0.0.927
N/A	Killer Intelligence Engine	Enable auto-connect to same SSID, enable user choice auto connect to different SSID
N/A	Killer Prioritization Engine	Add Extreme Game Mode option. Used to auto adjust bandwidth during gaming sessions.
N/A	Killer Control Center	Added popup/toast notifications for KIE AP suggestions.

- **Version 2.2.1397**

ID	Component	Description
N/A	Installer	Fixed installation of 1435/1535 driver version 12.0.0.927

- **Version 2.2.1391**

ID	Component	Description
N/A	Killer E3000/E3100G Driver	Added support for E3100G
N/A	Killer E3100 Driver	Inclusion of E3100 device driver.
2545361	Killer 1435/1535 Driver	Yellow Bang occurs when rebooting is repeated while connected to WPA3-SAE AP
2539426	Killer 1435/1535 Driver	BSOD "DRIVER_VERIFIER_DMA_VIOLATION" occurred after running PLDR Test
N/A	Killer 1550/1650 Driver	Update to latest Killer 1550/1650 driver
N/A	Killer Filtering Engine Driver	Added support for E3100 and E3100G devices.
N/A	Killer Control Center	Added refresh to Killer Intelligence Engine Notification screen.

- **Version 2.1.1362**

ID	Component	Description
N/A	Killer 1550/1650 Driver	Update to latest Killer 1550/1650 driver.

- **Version 2.1.1352**

ID	Component	Description
1612	Rivet Filtering Engine	Resolved CVE-2019-15661, CVE-2019-15662, CVE-2019-15663, CVE-2019-15664, CVE-2019-15665

N/A	Killer Control Center	Added additional Killer Intelligence Engine events
N/A	Killer Control Center	Added Toast style notifications enablement
N/A	Killer Control Center	Adjusted the layout of the Settings Page
N/A	Killer Control Center	Adjusted Killer Bandwidth Tester window
N/A	Killer Intelligence Engine	Added additional Killer Intelligence Engine events
N/A	Killer Intelligence Engine	Adjusted message and added notification event for AP Suggestions
N/A	Killer Intelligence Engine	Reworked Killer Intelligence Engine infrastructure
1653	Killer Control Center	WWAHost.exe Process persists after the Speedtest window is closed
N/A	Advanced Stream Detect	Optimized Advanced Stream Detect functionality while Priority 1 and 2 items are running.

• **Version 2.1.1334**

ID	Component	Description
N/A	Killer 1435/1535 Driver	Update to latest Killer 1435/1535 Driver
N/A	Killer 1550/1650 Driver	Update to latest Killer 1550/1650 Driver

• **Version 2.1.1313**

ID	Component	Description
1607	Killer Control Center	Stop Windows Notifications for Setting Bandwidth
1608	Killer Control Center	Change Bandwidth Setting severity to Orange/Medium
N/A	Advanced Stream Detect	[Advanced Stream Detect] Numerous rule adjustments and additions.
N/A	Killer E3000 Driver	For E3000, fix giga mdi loopback fail issue.
N/A	Killer E3000 Driver	For E3000, fix lan lost issue.
N/A	Killer E3000 Driver	Fixed speed not matched when system resume from sleep.

• **Version 2.1.1299**

ID	Component	Description
N/A	Killer 1550/1650 Driver	Update to latest Killer 1550/1650 Driver

• **Version 2.1.1295**

ID	Component	Description
N/A	Killer Control Center	Fixed issue that would cause Killer Control Center to utilize more CPU while idle than intended.
1593	Killer Control Center – Speed Test	Test fails to see completed result when OS language is in a different number structure language than the website

1592	Killer Control Center	[Localization][KCC v1 and v2] Incorrect language code for NORSK, should be nb, not nn
N/A	Killer 1550/1650 Driver	Update to latest Killer 1550/1650 Driver

- **Version 2.1.1295**

ID	Component	Description
N/A	Killer Control Center	Update KCC to disable Doubleshot if Hotspot gets enabled
N/A	Killer Control Center	Fix KCC issue with being able to enter SSID/Password field when in 'extend current network' mode.
N/A	Killer Control Center	[Feature Request] Add Application Priority whitelist version feature.
N/A	KillerNetworkComponent Driver	Fixed Issues shown by infverif tool that prevented 'Declaritive' driver status.
N/A	E2600/E3000 Driver	Eliminate infverif error message ERROR(1332)
N/A	E3000 Driver	For E3000, update parameters
N/A	E2600/E3000 Driver	Add support for building driver with retpoline support
N/A	E2600 Driver	For E2500/E2600, fix compatibility issue to Ruckus ICX 715048Zp switch 2.5G port with different approach
N/A	E2600 Driver	Fixed E2500/E2600 LED still blinking after phy is powered down by PHY disable mode is enabled
N/A	E2600/E3000 Driver	19H1 RTM HLK pass
N/A	Killer 1550/1650 Driver	Update to latest Killer 1550/1650 Driver

- **Version 2.1.1281**

ID	Component	Description
N/A	Rivet Filtering Engine	Identified and fixed issue that would occasionally cause traffic to not pass on certain systems/networks
N/A	Killer Control Center	Killer Control Center Intelligence Engine UI update
1581	Killer Control Center	Add website popup has a cut off string in all languages
1574	Killer Control Center	add Baidunetdisk.exe as default, YoukuNPlayer.exe as streaming
1567	KillerNetworkComponent Driver	[CustomizeInstallFirstRun] proper configuration fails against the current 'Killer 1550' device name
1558	Killer Control Center	Popup windows without icons in taskbar / can maximize to full screen
N/A	KillerNetworkComponent	Used DUA to resolve dependency issue causing xTendUtilityService to cause WLAN Profile loss during PBR.
N/A	Killer 1550/1650 Driver	Update to latest Killer 1550/1650 Driver
N/A	Killer 1435/1535 Driver	Update to latest Killer 1435/1535 Driver