Esports



System & Networking Guide

Contained within this guide is an exhaustive list of titles that may be installed in an esports lab on your campus depending on varsity & club offerings.

In addition to the accept listing below, **the program director needs local admin to all esports computers due to the constant updates these programs receive and the rigorous practice & competition schedule**. The inability to update several titles each match day will result in forfeitures impacting program & student success

**Table of Contents**

**PC Program Installations**

1. [Chipset Driver (AMD or Intel)](#bookmark=id.gjdgxs)
2. [GPU Driver (AMD or Nvidia)](#bookmark=id.30j0zll)
3. [Discord](#bookmark=id.1fob9te)
4. [Streamlabs](#bookmark=id.3znysh7)
5. [Gif Your Game](#bookmark=id.2et92p0)
6. [Epic Pen](#bookmark=id.tyjcwt)
7. [Steam](#bookmark=id.3dy6vkm)
   1. [Rocket League](#bookmark=id.1t3h5sf)
      1. [Bakkes Mod](#bookmark=id.4d34og8)
   2. [Apex Legends](#bookmark=id.2s8eyo1)
   3. [Smite](#bookmark=id.17dp8vu)
   4. [Counter-Strike: Global Offensive](#bookmark=id.3rdcrjn)
      1. [Faceit Anti-Cheat](#bookmark=id.26in1rg)
      2. [ESEA Client](#bookmark=id.lnxbz9)
      3. [Skybox](#bookmark=id.35nkun2)
8. [Battle.net](#bookmark=id.1ksv4uv)
   1. [Overwatch](#bookmark=id.44sinio)
   2. [Hearthstone](#bookmark=id.2jxsxqh)
9. [Epic Games](#bookmark=id.z337ya)
   1. [Rocket League](#bookmark=id.1t3h5sf)
   2. [Fortnite](#bookmark=id.3j2qqm3)
10. [Ubisoft Connect](#bookmark=id.1y810tw)
    1. [Rainbow 6: Siege](#bookmark=id.4i7ojhp)
11. [League of Legends](#bookmark=id.2xcytpi)
12. [Valorant](#bookmark=id.1ci93xb)
13. [Forza Motorsport 7](#bookmark=id.3whwml4)
    1. [Xbox Live](#bookmark=id.2bn6wsx)

**PC Program Categories:**

* Driver
* Client
* Utility
* Game

**Nintendo Switch accept lists:**

1. [Nintendo Switch Online](#bookmark=id.qsh70q)
2. [Super Smash Bros. Ultimate](#bookmark=id.3as4poj)

# Chipset Driver (AMD or Intel)

**Category:** Driver

**Links:**

AMD: <https://drivers.amd.com/drivers/installer/20.50/beta/radeon-software-adrenalin-2020-21.3.1-minimalsetup-210317_web.exe>

Intel: <https://www.intel.com/content/www/us/en/support/detect.html>

**Explanation:** Drivers that allow the motherboard and computer processor to stay up to date and functioning. The vast majority of the PCs the club built utilize AMD motherboards.

**accept list:** N/A

# GPU Driver (AMD or Nvidia)

**Category:** Driver

**Link:**

AMD: <https://drivers.amd.com/drivers/installer/20.50/beta/radeon-software-adrenalin-2020-21.3.1-minimalsetup-210317_web.exe>

Nvidia: <https://www.nvidia.com/en-us/geforce/drivers/>

**Explanation:** Drivers that allow the graphics card to stay up to date and functioning. The vast majority of the PCs the club built utilize AMD graphics cards.

**accept list:** N/A

# Discord

**Category:** Utility

**Link:** <https://discord.com/api/download?platform=win>

**Explanation:** Program that allows students and coaches to communicate with each other and other teams. Necessary for club communication, tournaments (administration, registration, participation, etc.), leagues (administration, registration, participation, etc.), and college recruitment.

**accept list:** N/A

# Streamlabs

**Category:** Utility

**Link:** <https://streamlabs.com/slobs/download>

**Explanation:** Program allowing lab computers to stream events and matches to Twitch.tv

**accept list:** N/A

# Gif Your Game

**Category:** Utility

**Link:** <https://www.gifyourgame.com/>

**Explanation:** Utility that allows players to capture moments from their competitive matches that can later be uploaded to the team website and social media.

**accept list:** N/A

# Epic Pen

**Category:** Utility

**Link:** <https://epic-pen.com/download>

**Explanation:** Utility that allows coaches and players to write on screen over various applications for review and discussion.

**accept list:** N/A

# Steam

**Category:** Utility

**Link:** <https://cdn.akamai.steamstatic.com/client/installer/SteamSetup.exe>

**Explanation:** Hub for several competitive titles such as Rocket League, Apex Legends, Smite, and Counter-Strike: Global Offensive that allows them to be downloaded and played.

**accept list:**

|  |  |  |
| --- | --- | --- |
| HTTP | TCP port 80 |  |
| HTTPS | 443 |  |
| UDP | 27015 through 27030  4380 |  |
| TCP | 27015 through 27030 |  |
| UDP | 27000 to 27015 | inclusive (Game client traffic) |
| UDP | 27015 to 27030 | inclusive (Typically Matchmaking and HLTV) |
| UDP | 27031 and 27036 | (incoming, for In-Home Streaming) |
| TCP | 27036 and 27037 | (incoming, for In-Home Streaming) |
| TCP | 27015 | (SRCDS Rcon port) |
| UDP | 3478  4379  4380 | (Outbound) |
| IPV4 | 45.121.184.0/23  45.121.186.0/23  103.10.124.0/24  103.10.125.0/24  103.28.54.0/23  146.66.152.0/23  146.66.154.0/24  146.66.155.0/24  146.66.156.0/23  146.66.158.0/23 | Valve Corporation |
| IPV4 | 153.254.86.0/24 |  |
| IPV4 | 155.133.224.0/23  155.133.227.0/24  155.133.228.0/23  155.133.230.0/23  155.133.232.0/24  155.133.233.0/24  155.133.234.0/24  155.133.235.0/24  155.133.236.0/23  155.133.238.0/24  155.133.239.0/24  155.133.240.0/23  155.133.242.0/23  155.133.244.0/24  155.133.245.0/24  155.133.246.0/23  155.133.248.0/24  155.133.249.0/24  155.133.250.0/24  155.133.252.0/24  155.133.253.0/24  155.133.254.0/24  155.133.255.0/24  162.254.192.0/24  162.254.193.0/24  162.254.194.0/23  162.254.196.0/24  162.254.197.0/24  162.254.198.0/24  162.254.199.0/24  185.25.180.0/23  185.25.182.0/24  185.25.183.0/24  190.216.121.0/24  190.217.33.0/24  192.69.96.0/23 | Valve Corporation |
| IPV4 | 205.185.194.0/24 | Valve Corporation (C04780190) |
| IPV4 | 205.196.6.0/24  208.64.200.0/24  208.64.201.0/24  208.64.202.0/24  208.64.203.0/24  208.78.164.0/23  208.78.166.0/24  208.78.167.0/24 | Valve Corporation |

# Rocket League

**Category:** Game

**Link:** <https://www.epicgames.com/store/en-US/p/rocket-league>

**Explanation**: A video game title played in the competitive league Unified Esports, MNVL, and NASEF alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

**accept list:**

|  |  |  |
| --- | --- | --- |
| UDP | 7000-9000 | rocketleague.com |
| TCP | 80  443 | rocketleague.com |
| IP |  | psyonix-rl.appspot.com  rl-cdn.psyonix.com  psyonix.com  datahound.com  c.evidon.com  Psy.net  rl-cdn.psyonix.com  Config.psynet.gg  rl-psy.net |

# Bakkes Mod

**Category:** Utility

**Link:** <https://github.com/bakkesmodorg/BakkesModInjectorCpp/releases/latest/download/BakkesModSetup.zip>

**Explanation:** Extension to Rocket League that allows players to practice and run drills.

**accept list:** N/A

# Apex Legends

**Category:** Game

**Link:** <https://store.steampowered.com/app/1172470/Apex_Legends/>

**Explanation:** Competitive game in the league IGL and several national tournaments.

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 1024-1124  3216  9960-9969  18000  18060  18120  27900  28910  29900  27015-27030  27036-27037 |  |
| UDP | 4380  27000-27031  27036  1024-1124  18000  29900  37000-40000 |  |

# Smite

**Category:** Game

**Link:** <https://store.steampowered.com/app/386360/SMITE/>

**Explanation:** Competitive game in the leagues IHSEN and PlayVS along with several national tournaments run by high schools, colleges, and other organizations

**accept list:**

|  |  |  |
| --- | --- | --- |
| UDP | 9002-9999 | smitegame.com |
| TCP | 9000, 9001 | hirezstudios.com |
| IP |  | hirez.net  hi-rezgame.net |

# Counter-Strike: Global Offensive

**Category:** Game

**Link:** <https://store.steampowered.com/app/730/CounterStrike_Global_Offensive/>

**Explanation:** Competitive game played in the SPIN League, ESEA, and Faceit along with several national tournaments run by high schools, colleges, and other organizations

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 27015-27030  27036-27037 |  |
| UDP | 4380  27000-27031  27036 |  |

# Faceit Anti-Cheat

**Category:** Utility

**Link:** <https://www.faceit.com/en/anti-cheat>

**Explanation:** Add on to Counter-Strike: Global Offensive that allows players to participate in the Faceit League and associated tournaments.

**accept list:** N/A

# ESEA Client

**Category:** Client

**Link:** <https://play.esea.net/index.php?s=downloads&d=download&id=1>

**Explanation:** Client for Counter-Strike: Global Offensive that allows players to participate in the ESEA league and associated tournaments.

**accept list:** N/A

# Skybox

**Category:** Utility

**Link:** <https://landing.skybox.gg/>

**Explanation:** Tool used to upload match recordings and analyze them.

**accept list:** N/A

# Battle.net

**Category:** Client

**Link:** <https://www.blizzard.com/apps/battle.net/desktop>

**Explanation:** Client that gives access to the games Overwatch and Hearthstone that are in the leagues NASEF, PlayVS, MNVL, and several tournaments nationally.

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 80  443  1119  1120  3724  4000  6112  6113  6114 |  |
| UDP | 80  443  1119  3478-3479  5060  5062  6250  12000-64000  1120  3724  4000  6112  6113  6114 |  |

# Overwatch

**Category:** Game

**Link:** <https://playoverwatch.com/en-us/>

**Explanation:** A video game title played in the competitive leagues PlayVS, NASEF, and alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 1119  3724  6113  80 |  |
| UDP | 3478-3479  5060  5062  6250  12000-64000 |  |

# Hearthstone

**Category:** Game

**Link:** <https://playhearthstone.com/en-us>

**Explanation:** A video game title played in various state and national tournaments held by high schools, colleges, and national esports organizations.

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 1119  3724 |  |
| UDP | 1119  3724 |  |

# Epic Games

**Category:** Client

**Link:** <https://launcher-public-service-prod06.ol.epicgames.com/launcher/api/installer/download/EpicGamesLauncherInstaller.msi>

**Explanation:** Client that gives access to the games Rocket League and Fortnite played in the leagues MNVL, PlayVS, NASEF, and several other national tournaments.

**accept list:**

|  |  |  |
| --- | --- | --- |
| IP |  | epicgames-download1.akamaized.net  download.epicgames.com  download2.epicgames.com  download3.epicgames.com  download4.epicgames.com  epicgames.com  Icdn1.unrealengine.com  cdn2.unrealengine.com  Istatic-assets-prod.epicgames.com  Igraphql.epicgames.com  account-public-service-prod03.ol.epicgames.com  catalog-public-service-prod06.ol.epicgames.com  coderedemption-public-service-prod.ol.epicgames.com  datarouter.ol.epicgames.com  datastorage-public-service-liveeos.ol.epicgames.com  ecommerceintegration-public-service-ecomprod02.ol.epicgames.com  entitlement-public-service-prod08.ol.epicgames.com  eulatracking-public-service-prod06.ol.epicgames.com  friends-public-service-prod06.ol.epicgames.com  fulfillment-public-service-prod06.ol.epicgames.com  launcher-public-service-prod06.ol.epicgames.com  launcher-website-prod07.ol.epicgames.com/  launcherwaitingroom-public-service-prod06.ol.epicgames.com  library-service.live.use1a.on.epicgames.com  lightswitch-public-service-prod06.ol.epicgames.com  notifications-service-prod06.ol.epicgames.com:443  orderprocessor-public-service-ecomprod01.ol.epicgames.com  persona-public-service-prod06.ol.epicgames.com  priceengine-public-service-ecomprod01.ol.epicgames.com  xmpp-service-prod.ol.epicgames.com |

# Fortnite

**Category:** Game

**Link:** <https://www.epicgames.com/store/en-US/p/fortnite>

**Explanation:** A video game title played in the competitive league MNVL alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 5222  5795-5847 | (inclusive) |
| UDP | 5222  5795-5847 | (inclusive) |

# Ubisoft Connect

**Category:** Client

**Link:** <https://ubi.li/4vxt9>

**Explanation:** Client that gives access to the game Rainbow 6: Siege that is in the SPIN League and several tournaments nationally.

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 80  443  13000  13005  13200  14000  14001  14008  14020  14021  14022  14023  14024 |  |

# Rainbow 6: Siege

**Category:** Game

**Link:** <https://www.ubisoft.com/en-us/game/rainbow-six/siege/buy>

**Explanation:** A video game title played in the competitive league SPIN alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 80  443  13000  13005  13200  14000  14001  14008  14020  14021  14022  14023  14024 |  |
| UDP | 6015 |  |

# League of Legends

**Category:** Game

**Link:** <https://signup.na.leagueoflegends.com/en/signup/redownload?page_referrer=index>

**Explanation:** A video game title played in the competitive league MNVL alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 2099 | prod.na2.lol.riotgames.com |
| TCP | 5222-5223 | chat.na2.lol.riotgames.com |
| UDP | 5100-5400 | 192.64.170.0/24 192.64.171.0/24  192.64.172.0/24  192.64.173.0/24  192.64.174.0/24 |
| TCP | 8088 | spectator.na2.lol.riotgames.com |
| TCP | 443 | auth.riotgames.com  lq.na2.lol.riotgames.com  l3cdn.riotgames.com  prod.config.patcher.riotgames.com  us.edge.rms.si.riotgames.com  ekg.riotgames.com  acs.leagueoflegends.com  entitlements.auth.riotgames.com  matchhistory.na.leagueoflegends.com  plstore.na2.lol.riotgames.com  status.leagueoflegends.com  store.na2.lol.riotgames.com  lolstore-a.akamaihd.net  lolesports.com  riotgamespatcher-a.akamaihd.net  cds.s4a8x2q3.hwcdn.net |
| TCP | 80, 443 | clubs.leagueoflegends.com  frontpage.na.leagueoflegends.com  lolstatic-a.akamaihd.net  oembed.leagueoflegends.com  am-a.akamaihd.net  riot.com  playvs.com |
| IP |  | playerpreferences.riotgames.com  riotp0use1.vivox.com |

# Valorant

**Category:** Game

**Link:** <https://playvalorant.com/en-us/>

**Explanation:** A video game title played in the competitive league MNVL alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 2099  5222-5223  8088  8393-8400 |  |
| UDP | 5000-5500  8088 |  |

\*Kernel level anti-cheat called Riot Vanguard needs to initialize on each system startup\*

# Forza Motorsport 7

**Category:** Game

**Link:** <https://www.microsoft.com/en-us/p/forza-motorsport-7/9nblggh4tnrt?activetab=pivot:overviewtab>

**Explanation**: A video game title played in the competitive leagues UGC alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 3074 |  |
| UDP | 88  500  3074  3544  4500 |  |

# Xbox Live

**Link:** <https://www.xbox.com/en-US/live>

**Explanation:** The network used for online multiplayer functionality for Windows Store & Xbox titles. Necessary for titles like Forza, Rainbow 6, and Rocket League (if the latter 2 are played on Xbox).

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 53  80  3074 |  |
| UDP | 53  88  500  307  3544  4500 |  |

# Nintendo Switch Online

**Link:** <https://www.nintendo.com/switch/online-service/>

**Additional Guide:** <https://k12techpro.com/how-to-change-nintendo-switch-nat-type-for-esports-fortigate/>

**Explanation:** The network service used for Nintendo Switch online multiplayer functionality to download, update, and play club titles such as Super Smash Bros. Ultimate, Rocket League, and Fortnite.

**accept list:**

|  |  |  |
| --- | --- | --- |
| UDP | 1-65535 | (inclusive) |

# Super Smash Bros. Ultimate

**Explanation:** Nintendo Switch exclusive game that is played both in-person and online in multiple leagues and tournaments including IHSEN, IGL, and PlayVS.

**accept list:**

|  |  |  |
| --- | --- | --- |
| TCP | 6667  12400  28910  29900  29901  29920 |  |

**Resources**

* <https://drive.google.com/file/d/13lLVu-kI8W0CNGVzbGwR1wqXW3tPk8yX/view>
* <https://playvs.zendesk.com/hc/en-us/articles/360026688853-Hardware-Network-Specifications-Inclusion-lists-#h_01EZRR51K1GSGAXRCZ5DRQXMDC>
* <https://help.highschoolesportsleague.com/hc/en-us/articles/360024326931-Ports-Services-to-Open>
* <https://us.forums.blizzard.com/en/sc2/t/how-to-put-in-ports-number-for-blizzard-games/7533>
* <https://en-americas-support.nintendo.com/app/answers/detail/a_id/22272/~/how-to-set-up-a-routers-port-forwarding-for-a-nintendo-switch-console>