

PRESENTED by FENIX 4947

GAME OVERVIEW

In a world where information is power, privacy is hanging by a thread, and this thread is a good old Ethernet cable. The servers are about to release all the information, and you must keep your personal information secret to avoid being cloned and used as a bargaining chip, but your journey is filled with obstacles.

Your faction must retrieve information in the database and make them secure on your server in order to safeguard your personal information as your opponents are attempting to do the same. A race for the information is now starting in the arena. You first have to power your FACTION SERVER with your POWER CABLE. Then, using TRANSFER CABLES, you will safely transfer the data from the DATABASE to your FACTION SERVER, while stabilizing the dataflow. Finally, you will hide away in your BACKDOOR and return on the Internet with your data.

The game starts with an autonomous period of 15 seconds during with you must completely cross the FACTION LINE (5 points) without crossing the SERVER LINE, and connect the POWER CABLE (30 pts in AUTO or 15 points during TELEOP). Then, we enter TELEOP period for a duration of 135 seconds. During this phase, the goal is to connect 5 TRANSFER CABLE (45 points), which you can obtain in your faction's resupply station. You will also need to beat your opponent in the number of STABILISATION CORE installed: this advantage will give you 1 point per second, for as long as you have the advantage. The STABILISATION CORES can be found in one of the two distribution station for each faction. They can be placed in the 9 cylindrical receptacles, which can be found under the BACKDOOR or on your faction's DATABASE. Once they have been placed, they can also be removed by the opposing team to control the advantage. Finally, the robots from each faction must hang themselves on their ZIPLINE (45 points), slide over to reach the BACKDOOR and do not touch de ZIPLINE anymore (30 additional points). If one or more robots in the faction have reached the BACKDOOR, the faction earns a RANKING POINT.

Good luck to every team and let's get connected!

DESCRIPTION OF NOTABLE FIELD ELEMENTS

The CYPHER CONTROL challenge is played on a 30' wide per 74' long arena. Two walls called FACTION WALL can be found at each end of the arena. Near those walls, there is an elevated platform, standing at 36" high. This platform, 269" wide and 45" deep (BACKDOOR) can be accessed by the ZIPLINE, which is an H beam that connect the BACKDOOR and the DATABASE, at a height of 78". Each faction also has a 216" long by 24" wide and 60" high server. In the middle, the DATABASE is 216" long, 24" wide and 60" high.

The DATABASE has 12 holes of 6" radius, 11" deep, and are places at 10", 30" and 50" high. Those holes are the receptacles used for the STABILISATION CORES. Three additional receptacles can be found under each BACKDOOR, 10" from the ground. Each factions has two DISTRIBUTION STATIONS, all placed at the same height. This allows the human player to give STABILISATION CORES to robots. One station is under the BACKDOOR while the other is on the lateral wall.

The faction lines are placed at 45" from the faction walls, while the server lines are at 113". The zone delimited by the SERVER LINES (SERVER ZONE), is specific to each faction : any and all contact with a robot from the opposing team in this zone will result in a tech foul. The same rule applies in the RECUPERATION ZONE and under the BACKDOOR. Contact is allowed in all other zones in the arena.

The STABILISATION CORES, 9 per faction, are aluminum cylinders of 10" in diameter and 10" long, with a handle. The handle is 8" long, and protrudes from the cylinder by 4". The robots must gather the STABILISATION CORES at the DISTRIBUTION STATION of its faction.

EXPECTED ROBOT ACTIONS

At the start of the match, robots need to be touching the FACTION WALL under the BACKDOOR. The entire robot has to be inside its perimeter. One of the faction robots can start the match with a POWER CABLE that has been charged beforehand.

The human players must place the STABILISATION CORES (9) in the DISTRIBUTION STATION at their convenience. Note that once the match has begun, it will not be possible for human players to move the STABILISATION CORES from one station to the other.

During the fifteen first seconds of the match, all the robots operate without any DRIVE TEAM control or input. This is called the autonomous (AUTO) period. In AUTO, robots exit from under the BACKDOOR by completely crossing the FACTION LINE without entering the SERVER ZONE. One robot can also connect the POWER CABLE. As soon as AUTO starts, robots can extend from their perimeter by 18 inches. There is no restriction for the robot's height.

The second phase of each MATCH is called the Teleoperated Period (TELEOP) and consists of the remaining two minutes and fifteen seconds. During this phase, DRIVERS remotely operate ROBOTS to retrieve the TRANSFER CABLES and connect them, thus connecting the DATABASE to their FACTION SERVER. The robots can also install STABILISATION CORES in the STABILISATION CORE RECEPTACLES of their faction's color, or remove them from their opponents in order to gain the advantage. Then, at the end, the robots will need to suspend themselves on the ZIPLINE and slide on the beam to reach the BACKDOOR and maximize the number of points gained.

IF ELEMENT USED, A DESCRIPTION OF HOW

The grade 30 steel chain is 156 inches long. Each link is 0.27 inches wide, 0.90 inches long and 0.16 inches thick. This chain is called TRANSFER CABLE and is the game main element. Each faction has 5 TRANSFER CABLE, which are used to connect the DATABASE to the FACTION SERVER. There is a connection buckle at each extremities.

The connection buckle is used to attach the chain TRANSFER CABLE to the CONNECTION POLE. The CONNECTION POLES are 2,912 inches diameter rods that are 10 inches high at the top of the DATABASE and the FACTION SERVER. Those rods are capped with screw-like half-spheres that prevent the chains from coming out too easily.

The POWER CABLE is also made from the same chain, and measures 210 inches long. However, this cable only has one connection buckle, and the other end of the cable is fixed directly to the FACTION WALL. The POWER CABLE is a fundamental game element, as without it, none of the TRANSFER CABLE connection gives any point.

The robots must gather the TRANSFER CABLES at the RECUPERATION STATION of its faction.

The chains are a visual representation of the TRANSFER CABLE. This technique used to transfer data reduces the chances of intrusion.