



## Who is Logos Earth?

Logos Earth Corporation (otherwise referred to as Logos Earth or logos.earth) was created for the purpose of conducting scientific research in the optimization of speed and security regarding cloud computing and similar services as well as public education of the findings.

### The mission of Logos Earth Corporation is:

- \* to further the development of Celestial Computing
- \* publicize and document the technical workings of Celestial Computing in order to make its recreation available to anyone
- \* to provide educational materials which inform the public on how to deploy Celestial Computing

## What is Celestial Computing?

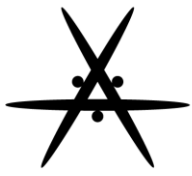
As of 2019 there are two main forms of computation, centralized computing done through servers, or decentralized computing utilized through torrenting or blockchain technology (all technical explanations in this document are simplified). Celestial Computing is a new form of computing which breaks up the load and sends computations either to a server or a blockchain based upon the needs of how secure, how fast, or how cheap the computations need to be executed then returned. Celestial Computing is just coming onto the scene of data management and holds potential to significantly reduce the cost and time of data processing while ensuring data integrity and security at unprecedented levels.

### How does Logos Earth fit into Celestial Computing?

Logos Earth Corporation seeks to define standards of Celestial Computing so that cross-platform interconnection is seamless. In addition, standards of security and the deployment of such systems must be well documented for others: schools, companies, medical, and municipal governments (this is not an exhaustive list) to utilize such a system deployed for their needs.

### Where is Celestial Computing researched and how is it documented?

The developmental research is conducted in an agile manner in accordance to the Agile Manifesto (agilemanifesto.org). Remote DevOps is utilized in order to link all development teams together regardless of location. Azure DevOps is used to document work progress of each team and its members. The work of each team member is then able to be documented and made available for peer review. Voice meetings occur five times a week to discuss the agenda of each team for the day. The work that is produced is published on GitHub (github.com/logos-earth) among other open online sources.



## **What purpose does Logos Earth's work serve?**

Utilizing the aforementioned resources, teams will be formed that will work on research and development of Celestial Computing. Through a community of dedicated and knowledgeable people the standards for making Celestial Computing compatible with existing forms of data management will be defined and published for anyone to utilize for their personal and/or business ventures.

## **When and where are Logos Earth's operations conducted?**

Headquarters are unnecessary for Logos Earth Corporation to operate as all our work can be distributed and pulled together through Git [Git is a technology which allows the evolutionary tracking of software and accelerates its distribution]. This allows everyone to connect on their own time. Teams can connect at scheduled times when voice and video conferences are needed to discuss regular progress, direction and/or problem solving. As solutions to potential problems are generated, they can be put through rigorous testing to ensure security, stability and functionality of each individual update. As updates are created, they can be provided to the community -open source- and ready for deployment or private testing so that they may deploy the Celestial system at their leisure.

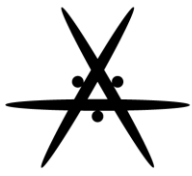
## **How can Celestial Computing help?**

Cloud computing has brought many advancements over traditionally hosted computing solutions. However, cloud computing is not able to address localized computing needs and security needs as affectively as localized solutions can. Therefore, edge computing and hybrid cloud computing are poised to be the next advancements in cloud computing in the foreseeable 2020s. However, it is unclear that edge and hybrid computing will be able to address all the security needs of the demands being pressed on them. In order to further security of cloud computing a system must be deployed which removes the host from controlling what is being ran. Instead keys will be placed into a smart contract over clouded and edge systems, creating Celestial Computing. This will enable a new form of economy to scale allowing small businesses and municipal governments to be able to utilize such computational power with greater safety and security than ever before which is far less susceptible to hacking and human error.

## **Why Celestial Computing is better off being researched and published by a non-profit?**

**It is essential for Celestial Computing to be promoted by a non-profit for the following reasons:**

- \* Cyber security such as cryptography must always be done in a completely open manner, sharing all findings. No data base that is thought of as a security standard is released without first presenting its source code openly for everyone to scrutinize before they utilize it.



- \* Standards for protocols and communication must be documented and published.
  - \* Even when an advancement is made by a for profit organization the results must be made available to other organizations for the advancement of Celestial Computing to be fully realized as being beneficial to everyone.
  - \* Awards will need to be given for the research and development of the technology that others contribute so that those who utilize it can flourish. This is true with most modern computer protocols.
    - Further documentation will be created to explain how awards will be granted. (However, at this time giving awards is on the long-term roadmap.)
  - \* Examples of other organizations doing this are:
    - RISC-V Foundation, a non-profit corporation which publishes RISC-V Specifications and Develops RISC-V architecture. It was originally developed in the Computer Science Division of the EECS Department at the University of California, Berkeley; now a non-profit in Switzerland.
    - Ethereum Foundation located in Switzerland, the organization promotes and supports research, development, and education to produce decentralized applications.
- \* The careful regulations and scrutiny provided by the IRS for a 501(c)3 tax exempt non-profit organization presents protocols for conduct of excellence. This is essential to give peace of mind to businesses utilizing the technology presented by Logos Earth.
  - \* An example of a tech non-profit which boasts of their financial openness is (Matrix.org Foundation, Company #11648710, A UK non-profit company which works on the Matrix Protocol [an open standard, lightweight protocol for real-time communication]).

## Who directly benefits from Logos Earth's work?

Like all advancements in computer science, the tech is kept as broad as possible so that parties may utilize the tech as best as possible, tailored to their needs. The entities Logos Earth Corporation will focus on working with are organizations which are utilizing Celestial Computing and furthering its development. Logos Earth Corporation will work in depth to make APIs available to integrate into as many systems that need the advantages of this new form of network computing.

## How does Logos Earth fund and conduct research?

Celestial Computing is researched by the community deciding which specific field should be further researched and developed. The amount of time and resources that are put into the research are denoted by the estimated points (one point being approximately one hour). The community is able to decide on an individual basis which tasks are taken and worked on. Once the task is complete, if any work is produced it is published to the community for testing. After testing is complete it can then be released with a stamp of approval by the community as it moves into an official release. Prior to each release, rigorous testing and peer review of the submissions will be conducted in order to assure quality releases and updates.



## **How will Logos Earth further the widespread use of Celestial Computing?**

Upon the proposal of a project developers and/or teams of developers can offer their services and bid on the pay they expect. The project will be delegated to the lowest bidder with the highest qualifications. Once a development team and price for a project has been chosen, they will be given a contract to accomplish the project. Once the project is finished, it will go through the proper phases before being published. This will allow the community to be involved while at the same time being able to keep track of and document who has contributed to what, as well as providing fair compensation for the work put in. However, this is not to say that all projects that Logos Earth works on are compensated. Most projects for Celestial Computing will be worked on as a form of donation to the community. (At the time of writing this, no one has been compensated for their contributions or is expecting monetary compensation for their work.)

In addition to publishing software, Logos Earth will help individuals and organizations get started with development of Celestial Computing for their specifically tailored needs. We will make documentation available to the community to further an individual's knowledge and skills so that Celestial Computing can be utilized for people's projects. (An example of another 501(c)3 tax exempt non-profit organization that does this is Free Code Camp Inc, EIN: 82-0779546, A 501(c)3 who help with learning Web Development utilizing Git.)

## **What kind of licensing does Logos Earth use?**

No fees will be charged for use of Celestial Computing. Documentation of Celestial Computing will generally be under a 3-clause BSD License. [This license allows unlimited redistribution for any purpose if its copyright notices and the license's disclaimers of warranty are maintained. The license also contains a clause restricting use of the names of contributors for endorsement of a derived work without specific permission.] However, software and source code will be under a 2-clause BSD License [which is the same for the exception that it omits the non-endorsement clause]. This leaves the community free to utilize the product of our research and whatever we may publish to be made available for their benefit at no cost.

## **How will Logos Earth process donations?**

Logos Earth Corporation will be open to receiving donations for general development of Celestial Computing. Fundraisers for specific aspects of Celestial Computing will be ran after an estimation has been able to be put together by developers estimating the time and effort it will take to complete. If the fundraiser doesn't reach its goal money will be returned to the backers unless the developers agree to work for a lower than originally proposed cost, or the fundraiser states that partial development can be done. Resources will only be pulled from the general fund when a project is decided upon. Those who work on that specific project are not paid by the hours of work that they put in, but by the unit (or point) of work they complete. Thus no one has a salary, payment is only on a case to case basis as projects get done.