**PRODUCT DEVELOPMENT: MvP- v.3.0**

**(State of Knowledge Part 1)**

***Disclaimer: The product is in production and available for any marketplace.***

**DESCRIPTION:**

CLAUDIA is a DAO, Decentralized Autonomous Organization, which takes all its governance under autonomous mechanisms on blockchain. It is under temporary protectorate of a Limited Liability Corporation with full ability to contract and establish legally binding obligation with any client in the world.

First clothes of CLAUDIA are the MvP we have developed as a blockchain-based web-app which integrates a survey and consulting application and applies the principles of privacy by design. Indeed, anonymization and pseudo-anonymization are available by default, and the client is the sole data owner of his/her opinions and consultations’ results. CLAUDIA, it enables the configuration of surveys with a maximum of four questions, which is a reasonable trade-off between optimal and objective attention and users ‘ongoing activity. However it is up to the client how the client wants to manage the trade-off with its audience and how many questions the clients wants CLAUDIA to do in one shot.

Collective Intelligence is our service and CLAUDIA is our MvP for you to rise the voice anonymously and being rewarded for your fairness in your opinion.

**OPERATIONAL SCALABLE MECHANISM:**

Through a very friendly and visual interface it is possible to configure and open consultations, to monitor the process while participation is allowed, and/or close the consultation. The panel allows to parameterize CLAUDIA with new questions and/or give the final results along with a blockchain certification on [wudder](https://www.wudder.tech/) layer within [Azure](https://azure.microsoft.com/en-us/free/search/?&ef_id=EAIaIQobChMI98ech5-F5gIVGJzVCh2ZfgkpEAAYASAAEgJ7_fD_BwE:G:s&OCID=AID2000115_SEM_SzwEaXyi&MarinID=SzwEaXyi_372682015153_azure_e_c__76795671352_kwd-49508422&lnkd=Google_Azure_Brand&dclid=CN_dkO6fheYCFdLg1QodubUGdg) and possibility of hybrid integrations throughout applications, processes and data with three minimal automated resources thru a GraphQL API to interact with HTTP API and a variety of SDKs for the strategic layer of CLAUDIA by using master token keys hash function MTK-512, which is a combination of [BLAKE2b](https://tools.ietf.org/pdf/rfc7693.pdf) with 512-bit output and [SHA3-512](https://nvlpubs.nist.gov/nistpubs/FIPS/NIST.FIPS.202.pdf).

360 grades cognitive services such as processing, networking, storage, mobility database management, communication layer, information analysis and knowledge generation.

**USE CASES: EVENTS ´SUCCESS PoCs.**

One of the use cases are based on any kind of event, social event, professional event, open space or in a theatre for example. We have accomplished both with success and results are as following:

1. SEMINCI 64, International Film Festival in Valladolid, Kigndom of Spain. October 2019
2. CONVERGENCE 19, Global Blockchain Congress organized by Alastria, INATBA and European Blockchain Observatory and Forum, November 2019.
3. CULTURGAL 2019, Pontevedra, Kingdom of Spain.

Within SEMINCI 64 CLAUDIA gave a reward for participating through a simple Smart Contract and one way usage QR Code, CLAUDIA would be able to anonymously provide feedback about the official program of the entire festival, and reward one of the participants with a VIP free entrance for next year at SEMINCI 65.

Within CONVERGENCE 19, the exploration was on the extensibility model of the product, we had maintained various meetings with interesting clients in Europe and South America and Caribbean Countries. With respect to technicalities we enhanced the capacity to adapt CLAUDIA in real time to the client´s requirements Consequently, CONVERGENCE 19 has provided an exercise to fuel CLAUDIA´s adaptability and capability.

Within CULTURGAL 2019, the repetition of the experience with a mixed mechanism between the reward mechanism and the participation, proof of modeling was testing with success as well. Experience was dully accountable metrics for CLAUDIA´s MvP.

As a new interoperability pilot, in the context of the COP25, CLAUDIA was invited to join at a volunteer initiative, [greenfilling initiative](https://greenfiling.info/) with the blockchain platform of [ClimateTrade](https://climatetrade.com/). Whereby CLAUDIA will help to calculate the Carbon footprint at the experimentation phase with [XBRL](https://xbrl.es/wp/), [greenfilling initiative](https://greenfiling.info/) will be driven focus on [standardization](https://www.blockchaineconomia.es/acuerdo-normalizar-reporte-verde-blockchain-europa/) and will serve to adapt CLAUDIA for global commercialization and promote tech-activism around Climate Change´s projects.

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**DAO RESTRICTIONS and KEY MINIMAL PRIVILEGES**

***Disclaimer: Any client has to be informed about the Decentralized Autonomous organizations, and in particular about the Key Minimal Privileges of the Stakeholders, which apply any time with CLAUDIA.***

**Minimal Governance Understanding**

As autonomous organization we take very seriously the off-chain governance and we trace any of our actions off-chain on the regularly minutes which are also certified on Blockchain on the Trust Layer of CLAUDIA, the off-chain is driven by the following composition:

OFF-CHAIN LAYER

**CEO**

**CTO**

**CSO**

**CCO**

**Note: each compartment does not mean one person.**

On chain Governance offers elemental added value to the clients:

a) Full traceability of the process and traceability of data-decision making.

b) Certification of the results on Blockchain, tamper proof and digital asset evidence.

c) Scalable functionalities and interoperability intra-chain by unified incident mechanisms.

d) Modular Reward and Incentive Mechanisms: Game Theory upon client design thinking with CLAUDIA.

e) All objective data is for the client´s purposes.

f) Anonymization and Pseudo-anonymization and GDPR compliance.

**Publications and Public Communication modality:**

CLAUDIA has a regularly public blogging and twitter account @weareclaudia as Social Media communication. Upon regularly meetings by the stakeholders of the DAO minutes and deliverables are consolidated on a quarterly basis publication. First publication, 25th December 2019, CLAUDIA is ongoing and under transformation we have received various mass media publications and we have something to say before the end of this year.

**Stakeholders Decision Making:**

Client Proposal has to be formerly approved by the budget proposal of CLAUDIA.

Under DAO parameters the client proposal is voted on the DAO and dully certified with the commitment of CLAUDIA on Blockchain for the client. No [PII](https://nvlpubs.nist.gov/nistpubs/Legacy/SP/nistspecialpublication800-122.pdf) (Personally Identifiable Information) or data is written on the layer. Proforma Invoice is sent to activate the contract with CLAUDIA.

**Standard Event Contract:**

Any client by writing to CLAUDIA at [hello@weareclaudia.com](mailto:hello@weareclaudia.com) can request a budget for an Event by filling the table below and include details of contact and CLAUDIA will revert back to you in due course.

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| --- | --- | --- | --- | --- |
| DATE | CAPICITY | PLACE | API (yes or no) | Hours |
|  |  |  |  |  |

**Governance and Interoperability**

CLAUDIA is composed with the following layers:

**Client Layer**

**Strategic Layer**

**Usership Layer**

**Client Layer**: includes the Usership Layer, full interoperability, collective intelligence data belongs to the Client and it is provoked for client’s purposes.

Who is a user in CLAUDIA? Anyone who can have access to the participation by Client´s choice.

Who is stakeholder of CLAUDIA? Anyone who proof DAO participation.

**Strategic Layer:** CLAUDIA is allocated on [wudder](https://www.wudder.tech/), a layer 2.0 on Ethereum main-net with functionalities for the client, it is case by case dealt, with three minimal automated resources thru a GraphQL API to interact with HTTP API and a variety of SDKs: time-stamping of the openness, time-stamping of closing and certification of results, with global average results, using master token keys hash function (MTK-512, which is a combination of [BLAKE2b](https://tools.ietf.org/pdf/rfc7693.pdf) with 512-bit output and [SHA3-512](https://nvlpubs.nist.gov/nistpubs/FIPS/NIST.FIPS.202.pdf)). Certification can be enforced within various model and trust anchoring simultaneously in various DLTs and Blockchains, these circumstances depend on the scenario of integration or application. This layer is a basic an extensible vehicle for scalability purposes and it is under a Policy for Unified Incident Response Management Protocol.

**Unified Incident Response Management Protocol**

It is a governance tool for interoperability and it has been created and adheres the scheme for optimal response with an Incident management situation:

**DETECTION**

User confirmation or communication.

Client confirmation. Internal confirmation.

**DISPOSITION**

Issue Documentation and Library and Wiki of CLAUDIA. Compliance Desk protocol implementation

**COMPOSITION**

Assistance for integration. Chat-bot and web-bot capabilities. Compliance reporting.

**DISPOSITION**

Publication and CLAUDIA Improvement Proposal Issuance.

CLAUDIA categorizes three main areas of incident monitoring:

1. Irregular processing.
2. Fraudulent processing..
3. Irresponsible processing.

**NOTE: At this date 19th December in 2019, one incident was confirmed by the Compliance Desk and qualified as Natural Risk or Human Risk within category 3**.

**VALUES and PRINCIPLES of CLAUDIA DAO for Governance: Behaviors**

Stakeholders have got roles based on their expertise, duties and obligations are described individually with the policy- token transition to their accounts. Each active stakeholder has its Duties and Obligations defined by agreement and consensus within the DAO.

**Why a DAO??**

It is a decentralized form of governance, quicker turnaround times for changes.

Our baselines are on the spectrum developed by ISO / IEC 38500:2015 with which we disseminate the tasks in three main dimensions:

1. Evaluation, current and future use of Blockchain and DLT systems and identify the risks and obligations for the stakeholders.
2. Driving the policies and procedures for an internal control framework to ensure that the usage meets obligations and mitigates significantly risks.
3. Monitoring conformance policies, procedures and performance operations to ensure risk management and compliance to obligations.

**Quadruple “A”: Responsibility**

1. **Authority:** as the right to make decisions and enforce obedience.
2. **Auditability:** the ability to achieve accurate results in the examination of the technology.
3. **Accountability:** the traceability of the actions performed by the DAO and it is an assurance that the organization will be evaluated on their performance or behavior related to something for which is responsible.
4. **Authenticity:** From the point of view of action, not false or copied, genuine and real action.

**Loyalty:** Faithfulness and devotion to CLAUDIA´s philosophy. CLAUDIA stakeholders have adhered by declaration of the Oath Governance of CLAUDIA.

**Transparency:** Openness communication and accountability.

**Commitment:** Stakeholders are declared a legally binding exchange of promises with the world of CLAUDIA.

**Community:** The group of shared things that coexist within CLAUDIA.

**Neutrality:** CLAUDIA keeps not to side in conflict and it does not participate on any solution. It is stable in nature by design.

**Sustainability:** CLAUDIA meets the needs of the present without compromising the ability of the future generations to meet their own needs. It is aligned with various Sustainable Development Goals and in particular with SDG 10, SDG 11, SDG13, SDG 16 and SDG 17.

**Leadership:** CLAUDIA gives the power of the voice to the people as the ability to influence, motivate or enable others to contribute toward effectiveness and success of the organizations, governments, NGOs, companies or communities and business.

**STANDBY-CONFIGURATION:** [**ENS**](https://ens.domains/) **domain ClaudiaNetwork**

**TOTAL SUPPLY TOKENS: ERC20 (NOT IN SALE)**

Token Symbol: CNT, [Claudia Network Token](https://rinkeby.etherscan.io/token/0xFD42a792479cDD3122CD520a4da4bE7cc2Fe451c).

TOTAL SUPPLY: 700,000 CNT with 18 decimals.

Contract Token Tracker: 0xFD42a792479cDD3122CD520a4da4bE7cc2Fe451c

**KEY MINIMAL GOVERNANCE VOTING App:**

The voting app parameters currently cannot be changed although DAO is able to initialize the permissions to change the following parameters:

**Support:** 71% of votes on a proposal that the total “yes” votes must be greater than for the proposal to be passed.

**Minimum Approval %:** 67% is the percentage of the total token supply that support for a proposal must be greater than for the proposal to be considered valid.

**Vote Duration:** 2 days is the length of time that the vote will be open for participation. If the vote meets the Minimum Approval % and Support requirements by the end of the Vote Duration, then the vote will be automatically be passed. This parameter cannot be changed.

**INTRA-CHAIN INTEROPERABILITY: COMMON TOOLS ROSOURCES:**

1. **GENESIS:** OPEN ENTERPRISE is a suite of apps that allows individuals and groups to run accountable organizational processes across a variety of uses, including management and bounties, decision making, budget planning and payments. It is built and maintained by [Autark](https://www.autark.xyz/) and developed on [Aragon](https://aragon.org/)
2. **Address Book.** app to assign easily human-readable names to Ethereum Addresses. From anonymity to identification within the DAO, not active in this moment but available since inception.
3. **Allocations.** app to manage multi-recipient financial allocations that are budget-controlled.
4. **Dot Voting.** app to participate in multi-option dot votes, when each voter has 100. Dots that can be distributed across each option. The voting weight will be determined by multiplying the voter´s token balance at the time the proposal is opened by the number of dots for the option. The outcome (e.g. top ranked options) is based on the average voting weight received per option. This tool has got a one day time-out and 63% of supporting needs from a minimal participation of 63%.
5. **Projects.** Very easy project management app that synchronizes Github repositories to the DAO, enabling bounties to be allocated to issues and issue curation to determine priorities.
6. **Rewards.** An app to compensate token holders with dividends, which can either occur on a one-time or recurring basis. This is not-active although available, the reason for being a non-active tool, it is because the Incentive Mechanisms the DAO is considering it is holistic and the game theory for this tool is pending on designing and approval from CLAUDIA.

***NOTE: First version of Interoperability Light Paper shall be proposed after Christmas.***

**STRATEGIC IMPLEMENTATION:**

There are two pillars as baseline to build on top of them:

1. Potential Clients;
2. Organic development and distribution;

France, Switzerland, Austria, Germany and Italy are ready to establish the policies of CLUADIA, our esteemed delegates are approved and officially doing in the first quarter of the year hence this is crucial for our milestones and European funding opportunities like [Horizon projects](https://ec.europa.eu/programmes/horizon2020/en) and other source of financing, some potential clients like UNIDO and ONCE are interesting to engage in January, and Kingdom of Spain is covered by Alastria commitment, which CLAUDIA is exploring a budget proposal for their events and for a use case in compliance reporting for GDPR. But we have various PoCs implemented already and scaling them current client’s interests.

**CONCLUSIONS: Security.**

Auditing is granted and has to be covered by the client at any moment, hence if the client wishes an auditing of the programming languages or any other cybersecurity considerations CLAUDIA is constructive for it. Fully compliance with GDPR.

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CLAUDIA collaborates actively with researchers from the Spanish National Research Council (Spanish: CSIC -Consejo Superior de Investigaciones Científicas) to conduct exhaustive security evaluation and audit of all its products. This consultancy is provided as a premium service and according to a specific and formal budget.

CLAUDIA is our DAO, and CLAUDIA is the MvP which adopts different formulas to listen your opinion.