CJ OLIVE NETWORKS

TECHNICAL ETHICS CHARTER

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CJ OLIVENETWORKS

Technical ethics are ethical values and principles that must be observed during the development and use of all technologies.

In the era of the 4th Industrial Revolution, AI is becoming widespread, and new technologies are being invented at an unprecedented rate. As a result, human daily life and social structures are changing in new ways that have never been experienced before. In order to respond to these changes, present the right direction, and run a sustainable business, it is necessary to clearly establish technical ethics. Accordingly, we would like to present the direction that should be pursued by each stakeholder regarding universal technical ethics principles and strive to adhere to them.

Stakeholders in this charter are as follows:

1) Developer: All members involved in CJ OliveNetworks' technology and service development

- A person who researches, designs and produces various products and services using technology
- Researchers who develop new technologies through research for academic purposes
- Professional personnel who receive a request from a supplier or are hired by a supplier to develop technology and implement the results into specific products or services, etc.

2) Supplier: Companies and members that provide and sell CJ OliveNetworks' products and services

- A person who provides products and services to the market
- Secondary suppliers who use and process the relevant technology and services are also included

3) User: When CJ OliveNetworks uses products and services of other companies

- People who use products and services
- Includes those who directly use products and services at work or in daily lives, those who consume services without specific awareness, and general citizens who lead daily lives under the influence of technology

We intend to establish and put into practice compliance principles of technical ethics according to the four universal perspectives as follows.

1. Publicness

- We strive to help as many people as possible in developing technology and ensure that the value created by the technology we develop is used for the benefit of all mankind.

Developer	▪ Throughout the entire process of technology and service development, exclude social discrimination factors due to differences in age, gender, disability, race, and ethnicity, and strive to develop technologies that can contribute to the general welfare of humanity. ▪ Develop technologies with consideration to ensure accessibility for the socially underprivileged and vulnerable groups who are easily marginalized or excluded from using new technologies. ▪ Strive to develop technologies that can contribute to solving social problems. ▪ Pursue open discussion and solutions regarding the use of technology.
Supplier	▪ Strive to connect the planning and distribution of products, as well as the results of use, to the benefit of the entire society at a public level. ▪ When developing technologies and services, consider ethical perspectives before placing orders with developers and continue to be interested in solving social problems through the use of technology. ▪ Consider the social ripple effects of technology and services and strives to establish harmony and balance between corporate interests and public contributions as our operating principle.
User	▪ Do not use technology and services for anti-social purposes and strives to ensure that the use of our products does not infringe on the free use of others. ▪ Participate in positive product improvement by providing fair feedback based on technology and service use. ▪ When using technology or services or purchasing products, check whether documents containing instructions for use or precautions for the object, such as terms and conditions, BOM (Bill of Materials), and user manual, are provided, and if missing, request that they be improved.

2. Accountability

- We clarify the distribution of responsibility in the event of accidents caused by technology and services and faithfully carry out our social obligations to share safety-related information and protect user rights and interests.

Developer	▪ Strive to share responsibility for the entire process and results from the development of technology and products to their use. ▪ When developing technology and services, must develop faithfully and fairly based on the needs of the orderer and strive to continuously contribute to information exchange and technology update among developers. ▪ Strive to develop products that meet quality certification standards derived domestically and internationally. ▪ Ethical procedures and internal standards related to research and development must be faithfully implemented so that technologies and services can be developed more safely.
Supplier	▪ Efforts should be made to share responsibility for social harm that arises as a result of the dissemination, spread, and use of technology-related products (or services), and fair and reasonable principles of responsibility and compensation should be established in preparation for malfunctions and accidents. ▪ Do the best to recognize and satisfy users' rights, and provide information and necessary training for accurate use. ▪ In relation to autonomous decision-making of services, responsibility is clarified by establishing strict conditions and methods for delegation of human choice.
User	▪ Be aware of the impact and liability that the results of using the company's products (or services) may have on the rights or safety of others. ▪ Pay continuous attention to the operation method and impact of technology and services, and in case of infringement of user rights and interests or safety accidents occur. Strive to improve related issues in the future by raising issues with those at fault, such as developers and suppliers. ▪ Recognize the impact of the company's usage patterns on social practices and culture and strive to improve with better technology and services by requesting the sharing of safety-related information and the institutionalization of safety.

3. Controllability

- For all technologies and service we develop, we prepare in advance measures against human controllability and malfunction and pursue a direction that guarantees users' choice as much as possible.

Developer	▪ Comprehensively examine various problems that may arise not only in general situations but also in exceptional situations at the root level. ▪ To maintain human controllability of technology and services, conducts continuous quality control on developed products and establish processes for this. ▪ From the perspective of safety and prevention, control devices (absolute operation stop function, etc.) against technical malfunctions and risks are established from the development stage.
Supplier	▪ Conduct a thorough preliminary verification by identifying risk factors that may arise during the distribution process, and provide a device that allows humans to reject or reject the machine's choice. ▪ Standardize safety verification standards and procedures for technology and products (or services), and establish safety and control measures for self-replication or improvement of the system. ▪ Guarantee users' freedom of choice as much as possible when using technology and products (or services).
User	▪ Strive to obtain and learn relevant information so that we can better understand the properties of technology and control it under user control. ▪ Do not arbitrarily manipulate technology and products (or services) beyond the permitted range for which they were designed so that the results of use can be predicted.

4. Transparency

- We strive to reflect the opinions of members of society in decision-making processes such as technology development, service design, and product planning, and disclose and share information related to expected risks at the use stage. Personal information is protected in accordance with the company's personal information processing principles.

Developer	▪ When an emergency situation occurs that requires a joint response between developers and stakeholders, share necessary data and cooperate in coming up with a solution to the problem. ▪ In order to prevent invasions of user privacy and safety risks, do not develop hidden functions that the orderer is not aware of. ▪ Make extensive and specific prediction efforts regarding the various results and predictable side effects that accompany the operation or use of products and services, and notify the supplier of the results when necessary.
Supplier	▪ When risks or potential risks resulting from the supply and use of products and services are recognized, this is notified and shared with users and the general public. ▪ We do not use user or third party information unfairly. ▪ Identify in advance the negative impacts of products and services on areas directly related to quality of life and strive to eliminate them during the technology development and product design stages.
User	▪ If it is determined that a specific technology or function may have a negative impact on society, the developer or supplier is requested to explain the process of creating or using it. If it is considered that a particular technology or function may have a negative impact on society during its use, we will withdraw our plan to use that technology or function. ▪ Recognize that technology collects and processes a variety of information about individuals and monitor whether the entire process of personal information processing is carried out appropriately. ▪ Pay attention to abnormalities and side effects when using products and services and share the experiences and information acquired as a consumer in an appropriate manner.

By complying with the above technical ethics charter, we will minimize potential risks that may arise from technological development and pursue sustainable development by prioritizing the safety and security of the members of the society.