

# News Release

To the press

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V-cube, Inc.

## **Adopted “Agora”, a video calling and live-streaming SDK, to the Metaverse named “MECHA-VERSE” Simultaneous voice chat for thousands of people implemented ～Interactive communication creates a realistic metaverse space～**

V-cube, Inc. (Head office: Minato-ku, Tokyo, Chairman and Group CEO: Naoaki Mashita, hereinafter “V-cube”) announces that it has provided “Agora”, a video call and live streaming SDK, to support simultaneous voice chat functionality for thousands of users in the “MECHA-VERSE” developed and provided by Hashilus Co, Ltd. (Head office: Kita-ku, Tokyo, President: Akihiro Ando, hereinafter “Hashilus”)

### ■ Outline

Hashilus is a company involved in a variety of VR content for both entertainment and business. “MECHA-VERSE” developed by Hashilus is a web browser-based metaverse that allows thousands of people to participate simultaneously. This service is highly regarded as a service that creates a “sense of presence” and “enthusiasm generated by many participants” that is often lost when events are held online.

“Agora”, a video calling and live-streaming SDK, was adopted to add a “group calling feature” to the “MECHA-VERSE”. It contributes to a more realistic and interactive event experience by allowing users to talk to each other in a virtual space, listen in on presentations.

### ■ Challenges before introduction

The challenge with simultaneous voice calls between multiple people is voice delay. In order to reproduce realistic communication, it was essential to minimize voice delay as much as possible, and in addition, the quality had to be able to withstand the expansion of the number of people. In order to quickly develop such a challenging function and provide it as an easily usable service, it was necessary to devise something other than in-house development.

### ■ Key deciding factors and evaluation points for adopting “Agora”

- High packet loss tolerance that does not interfere with voice chats of 3,000 people
- SDK's simple implementation allows for quick functionality addition
- Ultra-low latency of 0.3 sec. on average by adopting a proprietary protocol
- Extensive development support in Japanese by V-cube

The company made the following comments about the service.

“When actually using the system, we were surprised at the high quality of the audio. It is not at all inferior to the web conferencing tools we usually use. There were no delays and we felt comfortable in the communication.”

“MECHA-VERSE” is attended by approximately 3,000 people. In this respect, the SDK “Agora” can handle a million people, and there was no problem at all using it with a Web browser, so we chose the SDK “Agora”.

V-cube will continue to provide a variety of video communication services to help customers realize their communication DX.

For more information on the case study at Hashilus, please click here.

<https://jp.vcube.com/case/29601.html>

For details of “Agora”, a video call and live streaming SDK, please click here.

<https://jp.vcube.com/service/agora>

【What is V-cube? <https://jp.vcube.com/>】

V-cube's mission is to “Provide Even Opportunity to everybody”. By creating an environment where people can communicate "anytime" and "anywhere", V-cube is working to eliminate the diverse inequalities that arise from time-and distance-constraints. Through visual communication, we aim to reduce the time and distance between people and interact, resolve social issues such as a declining birthrate, an aging society, long working hours, education and medical disparities, and realize a society in which all people can equally earn opportunities.

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