

IAF HUMAN SPACEFLIGHT SYMPOSIUM (B3)
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ASTRAX SPACE SERVICE CATALOGUE SYSTEM FOR SPACE TOURISM

Abstract

ASTRAX has established many space businesses for 15 years. We have sold space trips by various private spacecrafts. In addition, we have been providing zero-gravity flight services (including lunar gravity and Mars gravity) for over 8 years in Japan. We have increased the number of owners of land on the Moon, managed their lunar addresses, and made a virtual city with more than 270 companies. We have given lectures to more than 100,000 people and provided consulting services to more than 500 companies. We have launched various space businesses into 20 group companies, including food, fashion, education, medical care, entertainment, and videography, and manage a total of 73 commercial space businesses simultaneously. In this way, we have been creating various products and services using space for 15 years. We are not developing spacecraft, rockets or artificial satellites, but are selling services that use them; we have steadily opened up the market and have continued to understand and respond to each customer's needs.

And I have understood. From now on, when the civil space era has come, civilian spaceships, civilian space hotels, civilian space colonies, and everyone can go to the Moon and Mars, we need everything in space that currently exists on the Earth. However, everything has to be remade. In an enclosed space where environmental control is performed, the environment in which people can live is actually not much different from the Earth. But there is definitely one difference. It means that the gravity environment changes variously. For example, 1G for the Earth, 3G for spacecraft acceleration, 0G for outer space, 1/6G for the Moon, 1/3G for Mars. On the Earth, various environmental factors such as temperature, humidity, pressure, and brightness change, which is the same for life in space. But gravity is not a problem since it is 1G everywhere on Earth.

However, gravity could change drastically when the human life zone expands into space. And everything needs to be reworked to adapt to various gravitational conditions. While a soldier or astronaut are trained to endure, ordinary customers who go to space probably will not. Their purpose for going to space is for luxury, moving, discovery, entertainment, business, etc. It is necessary to respond to various demands, and all must create a service that responds to changes in gravity.

In this paper, ASTRAX catalogue system to matching these space seeds and space needs will be introduced.