

International Cooperation for Space Exploration (1)
International Cooperation for Space Exploration (3) (3)

Author: Dr. Yufu Cui

DFH Satellite Co., Ltd., China Academy of Space Technology (CAST), China, 13801035133@139.com

Mr. Zhenwei Feng

DFH Satellite Co., Ltd., China Academy of Space Technology (CAST), China, 18810235621@163.com

CHINA SMALL SATELLITE DEVELOPMENT AND INTERNATIONAL COOPERATION

Abstract

“ONE WORLD, ONE SPACE”. To date it is most important to peacefully utilize and explore the space resources and benefit the humankind based on the international space cooperation. As to the current world satellite market, more and more countries need deep international cooperation to help them to construct their own space foundation, to develop, launch and fully utilize the LEO remote sensing satellite, to train the professional management and technical engineer group for the future satellite project, etc. As to DFH Satellite Co. Ltd, which is the key small satellite development and manufacturer in China, 99 small satellites has be launched totally, with 78 satellites running in orbit with good performance at the end of 2019. Based on the successful development international cooperation project for VRSS-1 and VRSS-2 satellite (Venezuela Remote Sensing Satellite-1 and 2), PRSS-1 satellite (Pakistan Remote Sensing Satellite-1), ETRSS-1(Ethiopia Remote Sensing Satellite-1) and the other cooperated satellite projects, different Advanced China small satellite platforms (including CAST2000, CAST3000, CAST100 etc.) are detailed, and the successful international cooperation mode and experience are highlighted. Based on that, it gives the solution as how to peacefully utilize and explore the space resources based on the partner, how to help the customer construct their own space foundation quickly with different cooperation mode, how to share the achieved data with customer to serve their domestic development directly. Besides the LEO-Satellite project cooperation, the cooperation in deep space is also introduced. Finally, the joint-development cooperation mode is confirmed as the most quick and beneficial international cooperation way for the developing country to construct their own space foundation and capability.