

IAF SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)
Upper Stages, Space Transfer, Entry & Landing Systems (3)

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NYX-EARTH - A VERSATILE CARGO CAPSULE WITH EVOLUTION CAPABILITY

Abstract

With the Bikini capsule qualified for flight and the Mission Possible Capsule currently undergoing final assembly, integration and test, The Exploration Company is currently developing the Nyx-Earth vehicle, which will be an operational product to serve LEO stations with both up and down cargo. Nyx-Earth is a 4m capsule which will be capable of bringing 4 tons of payload to the stations and over 2 tons back to Earth. The initial service will offer both passive and activate cargo, and in the future additional services such as reboost and refuelling will be added.

Nyx-Earth is built with an evolution capability in mind: to a human-rated capsule for transporting astronauts to LEO destinations or to a lunar cargo return vehicle.

Keywords: space exploration, capsule, re-entry, reusable, modular