

IAF SPACE PROPULSION SYMPOSIUM (C4)
Liquid Propulsion (1) (1)

Author: Mr. Dimitri Telitschkin
ArianeGroup, Germany, dimitri.telitschkin@ariane.group

Mr. Michael Biehler
ArianeGroup, Germany, michael.biehler@ariane.group
Mr. Mohamad El Atrach
ArianeGroup, Germany, Mohamad.ElAtrach@ariane.group
Mr. Stefan Lentz
ArianeGroup, Germany, stefan.s.lentz@ariane.group
Mr. Thomas Maier
ArianeGroup, Germany, thomas.maier@ariane.group
Mr. Martin Riehle
ArianeGroup, Germany, martin.riehle@ariane.group
Dr. Stefan Ziegenhagen
ArianeGroup, Germany, stefan.ziegenhagen@ariane.group
Mr. Timo Krone
ArianeGroup, Germany, timo.krone@ariane.group
Mr. Eric Chocheyras
ArianeGroup SAS, France, eric.chocheyras@ariane.group

OVERVIEW OF EQUIPMENT AND SUBASSEMBLIES FOR THE ESM PROPULSION SYSTEM FOR
ARTEMIS MOON EXPLORATION PROGRAM**Abstract**

The Artemis program is an international robotic and man-rated Moon exploration program led by NASA in cooperation with space agencies of Europe, Japan, Canada and United Kingdom and under involvement of the major space industrial in Europe. The European Service Module (ESM), provided by ESA is the core element of the Orion spacecraft. Under the lead of the industrial prime Airbus Defence and Space, ArianeGroup is a major supplier for propulsion elements and services. The purpose of the paper is to provide the portfolio of the propulsion elements, sub-assemblies and services of the ArianeGroup resulted in contribution to the ESM propulsion system, to provide their qualified operation capabilities based on set of the key requirements for the man-rated applications.