

Mechanical & Thermal Architecture of IASI NG¹ instrument

Laurent DOUMIC⁽¹⁾, Virginie LE GALL⁽²⁾

Thierry SALAUN⁽³⁾

⁽¹⁾ CNES

18, Av Edouard Belin, 31401, Toulouse, France

Email: laurent.doumic@cnes.fr

⁽²⁾ Airbus Defence and Space

31 Rue des Cosmonautes, 31402, Toulouse, France

Email: virginie.legall@airbus.com

⁽³⁾ Airbus Defence and Space

31 Rue des Cosmonautes, 31402, Toulouse, France

Email: thierry.salaun@airbus.com

ABSTRACT

This document deals with architecture description and validation of IASI NG instrument focusing on mechanical and thermal topics only.

Starting with IASI NG program reminder: 3 instrument models embarked on ESA Metop-SG Satellite A1/A2/A3 (launch date 2025/2032/2039), it synthesizes mechanical and thermal description of IASI NG instrument and show the status of each model on mechanical and thermal qualification and acceptance status taking into account last pitfalls which have had an impact as for example, impact of Ukraine war (change from SOYUZ to AR6 launcher), B4 detector anomaly on PFM model (change from PFM to FM2 for Metop-SG A1 procurement for the first satellite) ...

Delivery of FM2 IASI NG model to Metop-SG A satellite is foreseen this year for a launch next year on AR6.

¹ Infrared Atmospheric Sounding Interferometer New Generation.