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ABSTRACT

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This paper is focused on the NGST telescope aspects and presents the main results of the ESA study "NGST Payload Suite and Telescope".

The first part summarises the trade-off analyses on optical, mechanical and control telescope concepts, and eventually proposes a baseline design for the telescope.

The second part describes the possible European contributions to the NGST telescope : invitations to tender based on the selected telescope design have been sent out to specialised European companies, and the results have been reported as well as the identified critical areas and needed associated developments.

Alcatel is well known in the field of cryogenic optics through the realisation of the Infrared Space Observatory, and in the field of high resolution telescopes, notably in the framework of military programmes.