

Title: Euclid Operational Considerations and Ground Segment Infrastructure

Agency/Company: ESA/ESOC

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Abstract:

Euclid as a "prototype" for future use of CFDP in ESA missions will have an impact on the evolution of the generic ground segment infrastructure. The generic mission control system products and the ground station infrastructure (ESTRACK) should be updated to provide support for file-based operations and CFDP file transfer. In particular, there may be a need to implement CFDP entities in the ground stations because of increasing TM data rates, which are not supported or very expensive to achieve on the terrestrial links. However, such changes in the infrastructure should be implemented in a way that does not affect missions not using CFDP while at the same time taking future mission requirements into account. Changes to existing systems should be minimized and standard interfaces should be maintained as far as possible. The presentation will introduce the Euclid requirements for ground segment CFDP and present concepts for CFDP support in the mission control system infrastructure and for the implementation of CFDP in ground stations.