A Planning and Scheduling Service for the ULISSE Platform

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Abstract—ULISSE is an EU project that aims at data valorization around the ISS experiments. The ULISSE software platform is endowed with a number of additional services to improve both data production and data analysis. This paper describes the Planning and Scheduling Service (PSS), a module developed to support functions of data production around the ISS activities and integrated in the ULISSE platform. In particular, the PSS is a software application developed within the Timeline Representation Framework and relies on a combination of different P&S algorithms in a loosely coupled way. Its current use to support Increment Planning activities for the Fluid Science Laboratory facility is shown and fully analyzed from design to application service delivery.

Keywords—Planning, Scheduling, Increment Planning Process