

VEMIPRO: Missionization Process for Multi Missions Vehicles

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Abstract:

On the **24th of February** GMV held the Final Review (FR) meeting of the VEMIPRO project at ESTEC. VEMIPRO stands for “Missionization Process for Multi Missions Vehicles” is a project dedicated to the missionization of the OBSW with special emphasis on the launcher scenario. Nominally all the Flight SW (FSW) parameters are determined, computed and optimized before the flight using dedicated tools, simulations and specific know-how. The main output of the VEMIPRO project is the definition of the missionization process and missionization tool that allows the central management of the FSW parameters to be used into the specific facilities during the mission phases from preliminary studies till launch.

For the FR meeting, GMV delivered the final version of the missionization tool prototype based on Matlab as well as the set of documentation describing the missionization process and missionization tool requirements and high level architecture. The prototype is capable of generating reports of the mission data, update mission data repository and generate the FSW files in different formats. The Tortoise SVN is directly included into the prototype for configuration control management. GMV provided a description and characterization of the ARIANE-6 launcher and PRIDE mission as main VEMIPRO use cases. All the missionization parameters for both cases have been identified and instantiated into the prototype. GMV concluded the VEMIPRO activity successfully and the outcomes of the projects may be used as starting point for future missionization activities