
Flight Software Validation and Verification Process for GEO Satellite

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The COMS On-Board Software validation and verification are based on the both validation processes used for the non-recurrent and recurring E3000 product line. In this paper, we address the validation processes applicable to the different development applied to COMS program. The E3000 product line software validation regression campaign is performed once with the final software version. However, in case of the late software correction or evolutions, the acceptance campaign may be spread over several software versions. This process shall be addressed through the change request process. For planning optimization purpose, the software development team may be requested to deliver the COMS software version before the completion of the acceptance campaign. In that case, the subset of tests to be run in priority before that early delivery is selected in order to maximize the coverage of these tests.