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Subject: Mission Adaptation Reusability using COTS based system Abstract
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Title: Mission Adaptation Reusability using COTS based system

We propose to create Multi-mission Adaptations for Uplink Data System, using the "Mission Interactive Scenario Studio" (MISS) architecture. The MISS framework will use enable adaptation programmers to create existing mission activities into scenarios and design pattern. The integration and composition to reuse the existing scenarios and patterns, the creation of new ones will leverage on the reusability of the existing models.

The MISS works as a content server using COTS software, to capture the developed adaptation knowledge for reuse and provide transformation into different mission Uplink Data System's implementations. The MISS architecture of Model, Controller, and Viewer concept, provides the mechanisms to contain knowledge of spacecraft and mission, to construct scenarios of mission activities based on their reusable design patterns, to view results interactively by users during the development cycle.

The main objective of this paper is to demonstrate a new concept for Mission Adaptation reusability using COTS S/W based system.

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