

Presentation Abstract

Presentation Title	ISS IV&V MADE and JSC Simulator Overviews
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Presentation Abstract	<p>The IV&V ISS Project has operated a CSCI simulator in various configurations for about a decade. This follows the JSC history of building simulators supporting manned spacecraft in the areas of requirements validation, design, integration and test, and flight and ground crew training. The ISS IV&V simulators are, for the most part, adaptations of simulators developed by ISS software developers and/or mission operations. JSC has many such tools that will run real time and provide visual environments. The early ISS IV&V simulator (known as the IV&V Legacy Testbed) leveraged the design of the ISS training simulator. It was limited to single CSCI simulations with limited interfacing with other CSCIs. IV&V now operates a multi CSCI simulator, known as the MDM Application Development Environment (MADE), with three configurations. These are the FQT configuration (also known as the stand alone), the Diagonal configuration (Hybrid), and the Integrated configuration (Stage or HSI). The IV&V MADE expands upon the MADE test environment used by the ISS developer for FQT and Stage test support. This presentation outlines the current IV&V ISS simulation capability and describes other simulators that may be available from JSC.</p>