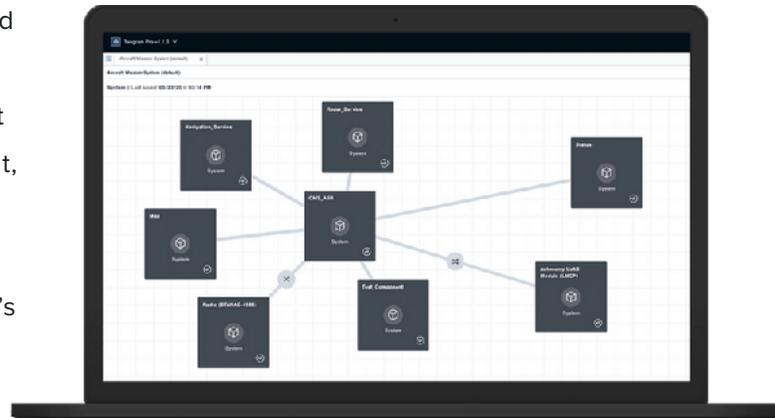


TANGRAM FLEX

DIGITAL ENGINEERING WORKSPACE

Engineering today's systems requires high levels of trust and transparency in the implementation of system-level design.

With its Digital Engineering Workspace, Tangram Pro™ sits at the intersection of system design and software development, enabling engineering teams to create new capabilities or to reuse existing software components more seamlessly – with confidence that the software code does exactly what it's intended to.



Technical Approach

Tangram's approach is founded in component-based engineering. Tangram Pro™ generates assurance artifacts that are used to provide a risk profile for each component of a system.

Our Digital Engineering Workspace maps component-based system designs directly to the deployed code so that new capabilities can be developed more rapidly while improving confidence in the quality, security, safety, and behavioral attributes of the software. Using the modern testing and analysis tools within Tangram Pro™, software components can be proven to meet wide ranging specifications and requirements.



Digital Modeling



Traceability between Code, Models, and Requirements



Proof of Functional Correctness

Digital Engineering with Tangram Flex

Related Initiatives

AFMS3 (SAIC): Tangram Flex provides SME and MBSE support to the Simulator Common Architecture Requirements and Standards (SCARS) program office, the Joint Training Simulation Environment (JTSE) program, and the Simulators Innovation Cell

Just In Time MultiMission Airman, Human Digital Twin (AFRL): In collaboration with the AFRL Airman Systems Directorate, Tangram Flex is creating and implementing a digital engineering environment using systems engineering tools such as CAMEO Systems Modeler, SysML, and Tangram Pro™.

ORCAS (Air Force Agency for Modeling and Simulation): Tangram Flex is assisting AFAMS, AFCMSO, and the AFLCMC Simulators Division in unlocking a rapid process to digitally clone an aircraft's Operational Flight program and then format it for testing and simulator use without manual re-coding.

MARDE-GRAS (Air Force Life Cycle Management Center): Tangram Flex is addressing the need for a manageable, sharable Government Reference Architectures library by addressing gaps in MBSE tool integration, improving access to model architectures, and providing model validation and collaboration tools.