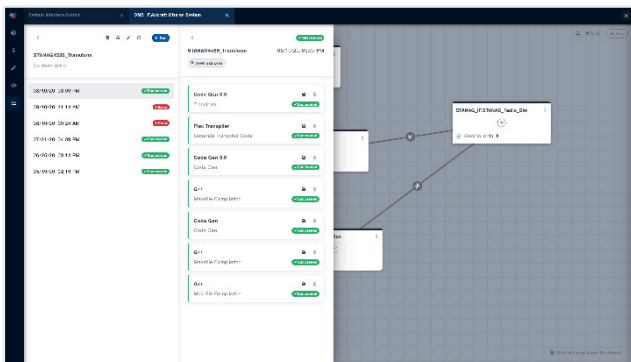
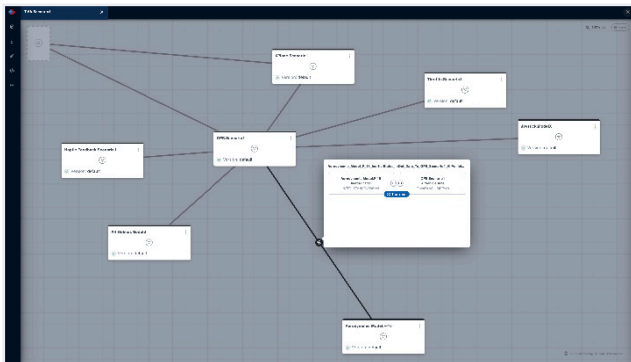
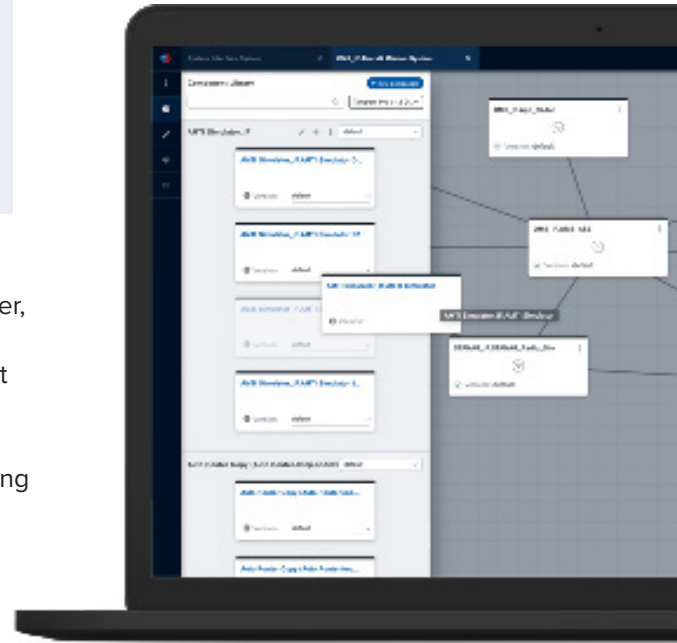


# TANGRAMPRO™

## The Leading Component Software Integration Platform (CSIP) for Mission Critical Systems

Component based system designs offer dynamic improvements to innovation through component upgrade, re-use, and replacement. However, the treacherous gap between Model Based Systems Engineering Tools and Software Development IDEs, CI/CD, and DevSecOps Pipelines make it difficult to achieve a system's full potential.

We have combined learnings and experience from our research, prototyping and services to build our CSIP, Tangram Pro™. Tangram Pro™ bridges the treacherous gap between System Engineering and Software Development with a practical engineering workspace for assured component deployment.



## Tangram Pro™ CSIP Capabilities

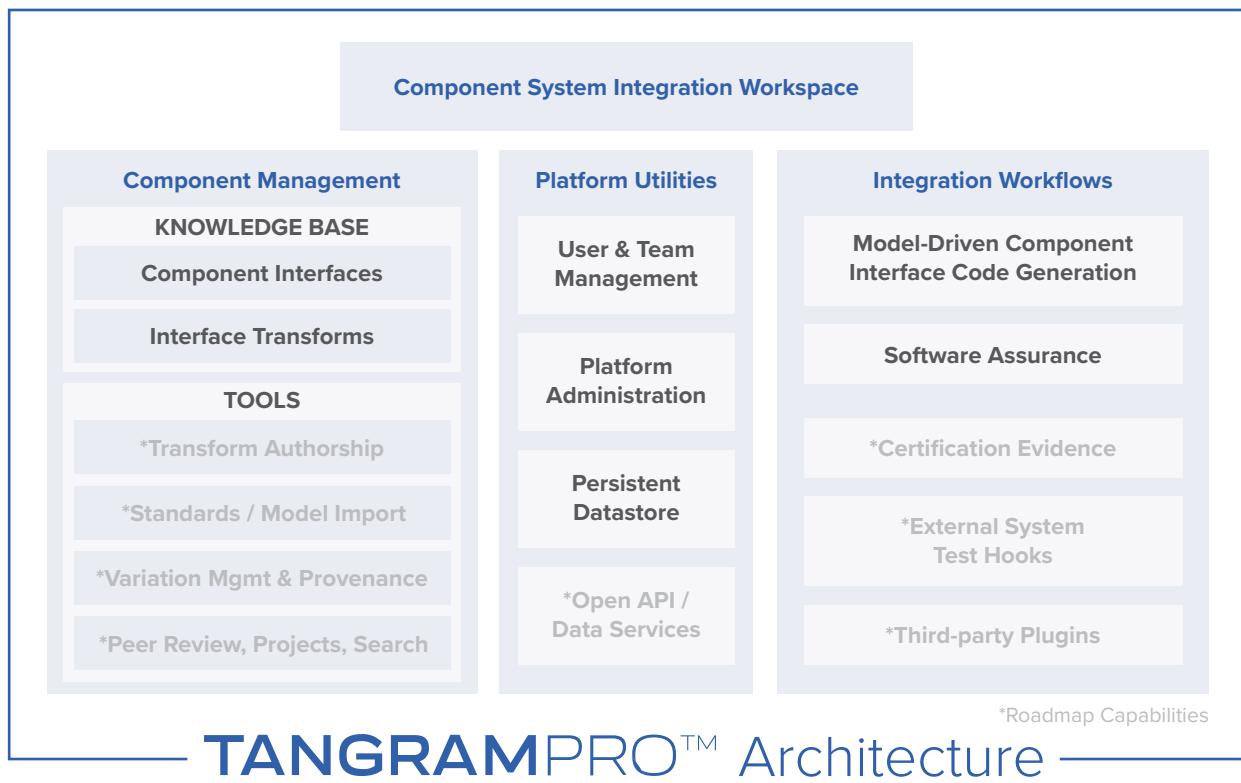
The Tangram Pro™ workspace equips systems engineers and software developers with gap-bridging tools for innovation.

- ▶ **Linkages between System Engineering and Software Development:** Tangram Pro™ provides complete control and connection from design through interface code generation
- ▶ **Code Generation Per Message Standards:** Automatic generation of Component Software Interfaces (CSI) for a growing list of standards
- ▶ **Streamlined Transformation:** Leveraging the Flex Translation Language, native component communication capabilities are mapped to mission requirements and messaging standards
- ▶ **Built-in Assurance Tools and Plug-ins:** Rapidly incorporate new components and updated functionalities with confidence.
- ▶ **Variation Management:** Automated updates and version management with hooks to external CI/CD and DevSecOps pipelines

ENGINEERS / DEVELOPERS

THIRD PARTY COMPONENT DEVELOPERS

EXTERNAL DEVELOPER REPO / THIRD PARTY PLUGINS



Tangram Pro™ can be delivered to customer environments flexibly, supporting PaaS, Cloud or VM deployment. Customers have access to robust modules, including:

- ▶ An easy-to-use Workspace for systems engineers and software developers to create individual software components and connect them to design complex systems.
- ▶ A Component Management toolkit powered by a knowledge base of components, standards, and transforms, and tools to manage the lifecycle of components
- ▶ An Integration Workflows module enabling model-driven automatic code generation, assurance checks, and hooks to external code repositories, CI/CD, and DevSecOps pipelines
- ▶ A Platform Utilities module providing team and user management and administrative controls as well as a persistent datastore.

<p><b>Currently Supported Standards</b></p> <ul style="list-style-type: none"> <li>▶ OMS</li> <li>▶ LMCP</li> <li>▶ STANAG-4586</li> </ul> <p><b>Supported Transforms</b></p> <ul style="list-style-type: none"> <li>▶ Any mapping between standards or proprietary protocols on a 1:1 message translation</li> <li>▶ Mapping created in Flex Translation Language and imported into the platform</li> </ul> <p><b>Automatic Code Generation Outputs</b></p> <ul style="list-style-type: none"> <li>▶ C++</li> <li>▶ Java</li> </ul>	<p><b>Code Generation Supported Message Buses</b></p> <ul style="list-style-type: none"> <li>▶ Kafka</li> <li>▶ RabbitMQ</li> <li>▶ ZeroMQ</li> <li>▶ ActiveMQ</li> </ul> <p><b>Deployment</b></p> <ul style="list-style-type: none"> <li>▶ User/Team Management</li> <li>▶ Platform Administration</li> <li>▶ PaaS or VM Deployment</li> <li>▶ Gitlab, Github, Bitbucket Integration</li> <li>▶ Integrated Software Assurance Checks</li> <li>▶ Persistent Datastore (Included MongoDB)</li> </ul>
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RAPID INTEGRATION WITH CONFIDENCE

tangramflex.com

Headquartered in Dayton, OH, Tangram Flex, Inc. is a venture-backed startup supporting organizations building mission critical software systems. We believe every mission deserves access to innovation and deliver capabilities to allow rapid integration with confidence.