TXT

Aerospace & Defence

SIMSCENE

TXT

Never Better.

TXT

Overview

TXT SimScene product family represents a complete and modular ecosystem for **professional simulation**: ready to use, yet open for customization.

Each module is a building block, designed to **accelerate simulator development** while allowing full flexibility to tailor functionalities, fidelity, and integration according to customer needs.

Built on **TXT extensive expertise in flight and mission simulation**, SimScene combines high-performance models, modern architectures, and open interfaces, enabling rapid adaptation to any training system, from fixed-wing to rotary-wing platforms, from desktop to full-flight simulators.

The SimScene Suite

Fly

Comprehensive **flight dynamics model** and associated **autopilot system** designed for configurable aircraft architecture.
Support both **fixed- and rotary-wing vehicles** with scalable fidelity and performance tuning options.

Wire

Real-time communication framework ensuring synchronized data exchange across **simulator subsystems.**

GlassVue

Flexible avionic display suite covering both generic and aircraft-specific layouts.
Includes PFD, MFD, and mission pages with real-time data binding and high-performance rendering.

Qontrol

Complete Instructor Operating Station (IOS) for mission setup, fault injection, and performance monitoring.
Offers **intuitive control interfaces**, **scenario management tools**, and **multi-simulator connectivity**.

Wave

High-fidelity sound environment generator for aircraft, helicopters, and multicopters.
Simulates aerodynamic, mechanical, and environmental sounds in real time, **adapting dynamically to flight conditions and cockpit interactions.**

Zephyr

Advanced atmospheric and turbulence model, simulating wind layers, gusts, and thermal variations. Integrates with flight and visual systems to produce physically **consistent weather effects and sensor interactions.**

SkyScape

Next-gen Image Generator (IG) delivering photorealistic real-time rendering for training and simulation. Supports visible, **IR**, and **NVG channels** with **thermal response**. SkyScape integrates external data to render dynamic environments synchronized with flight models and sensors.

Fuze

Universal CIGI connector and data bridge linking external Image Generators, scenario engines, and TXT (or customer) simulation modules. **Fuze supports CIGI 3.3/4.0 and custom channels** for reliable, flexible multi-system integration.

GeoForge AI

AI-powered terrain intelligence engine capable of extruding 3D features from 2D geospatial data. Works in combination with **SkyScape** to enrich visual scenes and terrain realism but can be used to generate **VDB elements** for other editors.

FLAPS

Flexible Library for Aircraft Plant Simulation (FLAPS), a modular C++ framework for **modeling aircraft subsystems**—electrical, fuel, and hydraulic. Provides **reusable, physics-based components** (generators, pumps, actuators, valves) for high-fidelity, real-time **simulation integration**.

Our Philosophy: Ready, but Open

Every SimScene component is production-grade and **field-proven, yet fully open for extension, adaptation, and evolution**.

This design philosophy turns SimScene products into the **perfect foundation** for system integrators and OEMs seeking reliable, customizable simulation modules.

TXT provides dedicated customization and tailoring services for every SimScene product, allowing customers to achieve an optimal balance between off-the-shelf reliability and mission-specific fidelity.

Through configurable APIs, data-driven architectures, and standard protocols, every module can be **shaped to perfectly fit your simulator ecosystem**.

Why SimScene

Accelerated integration – pre-validated, interoperable components

Tailored to your needs – full customization and tailoring by TXT SMEs

Proven quality – components derived from certified simulator experience

Future-ready – continuously evolving ecosystem backed by TXT know-how